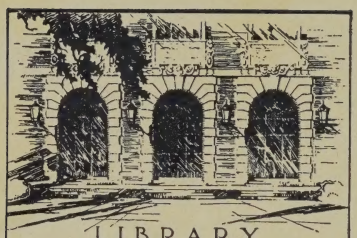
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POMONA COLLEGE BULLETIN

ANNUAL CATALOG NUMBER

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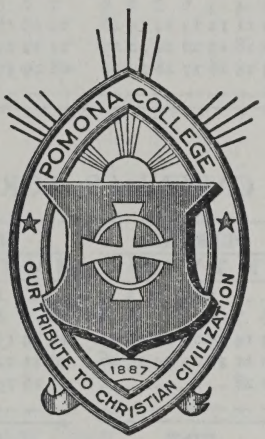
1954-1955



Pomona College

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CALENDAR FOR 1954

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COLLEGE CALENDAR FOR 1954-55

Claremont Summer Session 1954
First Term: June 21-July 30
Second Term: August 2-September 4

First Semester

September 17, Friday	Residence halls open for new students only. First meal served, dinner at 6 p.m.
September 17-20	Program for new students
September 18, Saturday	Faculty Meeting, 10 a.m.
September 20, Monday	Conference Day and Registration for new students
September 21, 22 Tuesday and Wednesday	Registration for returning students. Residence halls open for returning students. First meal served to returning students, breakfast, Tuesday.
September 23, Thursday	First semester classes begin, 8 a.m. Opening Convocation, 11 a.m.
October 7, Thursday	Last day for entering courses
October 14, Thursday	Founders Day, Flame Ceremony, 11 a.m.
November 1, Monday	First low grade report due
November 4, Thursday	Final day for withdrawal from classes without penalty
November 24, Wednesday	Thanksgiving recess begins, 9:30 p.m.
November 29, Monday	Thanksgiving recess ends, 8 a.m.
December 6, Monday	Second low grade report due
December 17, Friday	Christmas vacation begins 4:15 p.m.
January 3, Monday	Christmas vacation ends, 8 a.m. Reading period begins
January 22, Saturday	Last day of classes
January 24, Monday	Final examinations begin
February 2, Wednesday	Final examinations end
February 5, Saturday	First semester ends

COLLEGE CALENDAR FOR 1954-55

Second Semester

February 7, Monday	Opening day for classes at Scripps College, Pomona students enrolled in Scripps courses are expected to attend.
February 8, Tuesday	Registration for Juniors and Seniors
February 9, Wednesday	Second semester classes begin, 8 a.m. Registration for Freshmen and Sophomores, afternoon only.
February 10, Thursday	Opening Convocation, second semester, 11 a.m. Registration for Freshmen and Sophomores, afternoon only.
February 23, Wednesday	Last day for entering courses
March 12, Saturday	Matriculation Day
March 21, Monday	First low grade report due
March 23, Wednesday	Final day for withdrawal from classes without penalty
April 2, Saturday	Spring vacation begins, noon
April 11, Monday	Spring vacation ends, 8 a.m.
April 30, Saturday	Second low grade report due
May 9, Monday	Reading period begins
May 21, Saturday	Last day of classes for Seniors
May 28, Saturday	Last day of classes
May 29, Sunday	Memorial Convocation, 5 p.m.
May 30, Monday	Final examinations begin
June 5, Sunday	Associated Colleges Baccalaureate
June 8, Wednesday	Final examinations end
June 11, Saturday	Alumni Day
June 12, Sunday	Commencement
June 16, Thursday	Scholarship Committee Meeting
June 17, Friday	Joint Meeting of the Classification and Student Affairs Committees

Claremont Summer Session 1955
First Term: June 20-July 29
Second Term: August 1-September 3

September 16-19	Program for new students
September 19	Registration begins

BOARD OF TRUSTEES

Officers

Rudolph J. Wig, *President*
Arthur J. McFadden, *Vice-President*
Fred W. Smith, *Vice-President*

Term of Office Expires June, 1954

Fred W. Smith, *Ojai*
Elmo H. Conley, *Pasadena*
William A. Johnson, *San Marino*
Roy E. Thomas, *Los Angeles*
Paul Fussell, *Pasadena*
Robert H. Craig, *Palos Verdes Estates*

Term of Office Expires June, 1955

Frank R. Seaver, *Los Angeles*
Robert P. Jennings, *Sierra Madre*
Paul S. Armstrong, *Los Angeles*
Clarence T. Stover, *Claremont*
Carl I. Wheat, *San Francisco*
Herbert S. Rempel, *Pasadena*

Term of Office Expires June, 1956

William B. Himrod, *Hollywood*
Arthur J. McFadden, *Santa Ana*
Charles E. Donnelly, *Los Angeles*
Yale B. Griffith, *Santa Barbara*
E. Wilson Lyon, *Claremont*
James W. Fifield, Jr., *Los Angeles*

Term of Office Expires June, 1957

Willis H. Merrill, *Long Beach*
George L. Eastman, *Hollywood*
William W. Clary, *Pasadena*
Rudolph J. Wig, *San Marino*
Frederick S. Bale, *Pasadena*
Charles Detoy, *Pasadena*

Term of Office Expires June, 1958

Lloyd L. Austin, *Pasadena*
Arthur M. Dole, *Pomona*
Mrs. Victor Montgomery, *Beverly Hills*
Mark H. Harrington, *Pasadena*
Morris B. Pendleton, *San Marino*

Honorary Members

Donald G. Aplin, *Highland*
David P. Barrows, *Berkeley*
George W. Bryant, *San Marino*
Mary Clark Eversole, *La Canada*
Luther Freeman, *Claremont*
Ernest E. Jones, *Claremont*
George R. Martin, *Los Angeles*
William S. Mason, *Pasadena*
Seeley G. Mudd, *San Marino*
Mary McLean Olney, *Berkeley*
George S. Sumner, *Claremont*

Ex-Officio Members

Managing Director, Claremont College
President of the Alumni Association
President of the Women's Campus Club
President of the Pomona College Associates

FORMER PRESIDENTS OF THE COLLEGE

Cyrus G. Baldwin, *1890 - 1897*
George A. Gates, *1901 - 1910*
Franklin L. Ferguson, *1897 - 1901*
James A. Blaisdell, *1910 - 1928*
Charles K. Edmunds, *1928 - 1941*

GENERAL ADMINISTRATION

1954-55

E. Wilson Lyon, *President* — *209 Sumner Hall*
B.A., University of Mississippi; B.A. and B.Litt., University of Oxford; Ph.D., University of Chicago; LL.D., Colgate University; D.Litt., Occidental College.

Paul H. Burton, *Controller* — *Harper Hall*
B.A., Western Reserve University.

William V. Shannon, *Treasurer* — *Harper Hall*
B.S., Virginia Military Institute.

Marjorie B. Woodford, *Assistant Treasurer* — *Harper Hall*
B.A., Pomona College; M.A., Columbia University.

Glenn V. Fuller, *Bursar* — *Harper Hall*
B.A., Ohio State University.

Allen F. Hawley, *Director of Alumni and Public Relations* — *203 Sumner Hall*
B.A., Pomona College; Graduate Student, Harvard University.

William B. Himrod, *Assistant to the President* — *203 Sumner Hall*
B.A., Pomona College. Graduate Student, University of Southern California.

John F. Moulds, *Assistant to the President* — *203 Sumner Hall*
Ph.B., University of Chicago.

Kenneth G. Beyer, *Assistant to the President* — *203 Sumner Hall*
B.A., M.A., Whittier College.

Warren B. Knox, *Assistant to the President and Secretary of Pomona College Associates* — *200 Sumner Hall*
B.A., M.A., Whittier College.

Morton C. Johnson, *Alumni Secretary* — *212 Sumner Hall*
B.A., Pomona College.

Kenneth E. Overaker, *Director of the News Bureau* — *20 Sumner Hall*

Agnes M. Johnson, *Executive Secretary to the President* — *209 Sumner Hall*

Ina T. Nider, *Social Director, Women's Campus* — *Harwood Court*
B.A., Fresno State College; M.A., Columbia University.

Jesse A. Cone, Jr., *Director of Men's Campus* — *Eli P. Clark Hall*
B.A., M.A., Stanford University.

May C. Frank, *Director of Residence Halls* — *Mudd Hall*
B.S., Columbia University; M.S., Iowa State College.

Lucille Gramse McCarthy, *Director of Dining Halls* — *Frary Hall*
B.S., M.S., Kansas State College of Applied Science.

Harold Honoré, *Campus Engineer* — *303 E. First St.*

The Faculty

Date denotes beginning of original term of service

ADMINISTRATIVE OFFICERS

ELIJAH WILSON LYON — 345 College Ave.
President, 1941.
B.A., University of Mississippi; B.A. and B.Litt., University of Oxford; Ph.D., University of Chicago; LL.D., Colgate University; Litt.D., Occidental College.

FRANCIS RAYMOND IREDELL[3]
Dean of the Faculty, and Professor of Philosophy on the Robert C. Denison Foundation, 1925.
B.A., Pomona College; M.A., Ph.D., Harvard University.

J. EDWARD SANDERS — Ridgefield Dr.
Dean of Students and Dean of Admissions, 1942.
B.A., Hendrix College; M.A., Ph.D., Columbia University.

SHELTON L. BEATTY — 741 Dartmouth
Dean of Men, 1949.
B.A., University of Tennessee; M.A., Cornell University; Doctoral Candidate, Stanford University.

JEAN B. WALTON — 147 E. Twelfth St.
Dean of Women on the Martha N. Hathaway Foundation, 1949.
B.A., Swarthmore College; M.A., Brown University; Ph.D., University of Pennsylvania.

MARGARET MAPLE — 4326 Via Padova
Registrar, 1940.
B.A., Pomona College.

FREDERICK BRACHER — 230 W. Seventh St.
Secretary of the Faculty and Professor of English, 1944.
B.S., Oregon State College; M.A., Ph.D., University of California.

WILLIAM L. WHEATON — 328 Oakdale Drive
Assistant Dean of Admissions, 1949.
B.A., Pomona College; M.A., New York University.

DAVID W. DAVIES — 524 W. Tenth St.
Librarian, 1947.
B.A., University of California at Los Angeles; M.A., University of California; Ph.D., University of Chicago.

GILBERT S. COLTRIN — 455 W. Twelfth St.
Physician of the Associated Colleges, 1940.
B.A., Pomona College; M.D., University of Rochester. Interne, Resident in Medicine, University of California Hospital; Fellow in Urology, Presbyterian Hospital, New York City; Exchange Fellow in Physiology, University of Kiel, Germany.

D. SCOTT FOX — 1390 Via Zurita
Assistant Physician of the Associated Colleges, 1952.
B.S., Ph.D., Cornell University; M.D., Stanford University.

W. ROBERT RANKIN — 645 N. College Ave.
Chaplain of Associated Colleges Church, 1951.
B.A., State University of Iowa; B.D., M.A., Yale University.

EMERITI

WALTER ALFRED ALLEN — 175 E. Twelfth St.
Emeritus Professor of Musical Theory and Appreciation, 1912.
B.A., Beloit College; B.Mus., Yale University. Associate, American Guild of Organists.

GRACE ELLA BERRY — 353 W. Eleventh St.
Emeritus Dean of Women and Associate Professor of Mathematics. 1909.
B.S., M.A., Mount Holyoke College.

JAMES WHITE CROWELL — 450 University Circle
Emeritus Professor of Romance Languages, 1929.
B.S., M.A., Haverford College; Ph.D., Cornell University.

BERNARD CAPEN EWER — 706 Indian Hill Blvd.
Emeritus Professor of Psychology. 1916.
B.A., M.A., Brown University; Ph.D., Harvard University.

MARION JEANETTE EWING — 455 W. Seventh St.
Emeritus Assistant Librarian. 1912.
B.A., Olivet College; B.S., Simmons College; M.A., Boston University.

CHARLES TABOR FITTS — 4435 N. Live Oak Drive
Emeritus Professor of Education. 1919.
B.A., Amherst College; M.A., University of California. Graduate study, Harvard University.

JESSIE EDITH GIBSON — 445 Grinnell Drive
Emeritus Dean of Women on the Martha N. Hathaway Foundation. 1927.
B.A., University of Idaho; M.A., University of Washington. Graduate study, California and Columbia Universities.

WILLIAM ATWOOD HILTON — 1293 Dartmouth Ave.
Emeritus Professor of Zoology on the Willard George Halstead Foundation. 1905.
B.S., Ph.D., Cornell University.

ERNEST E. JONES — 905 College Ave.
Treasurer Emeritus. 1909.
B.A., Pomona College.

CYRIL JURECKA — 163 W. Eleventh St.
Emeritus Assistant Professor of Art. 1932.
Graduate, Imperial and Royal College of Sculpture, Horice, Bohemia.

WILLIAM KIRK — 705 Indian Hill Blvd.
Emeritus Professor of Sociology on the Henry Snyder Foundation. 1922.
B.A., Ph.D., Johns Hopkins University.

ELLIOTT CURTIS LINCOLN — 472 W. Tenth St.
Emeritus Professor of English on the Phebe Estelle Spalding Foundation. 1924.
B.A., Colby College; M.A., State College of Washington and Harvard University.

BRUCE MCCULLEY
Emeritus Professor of English Literature. 1921.
B.A., Hiram College; M.A., University of Chicago; Ph.D., Harvard University.

WILLIAM EVAN NICHOLL — 240 E. San Jose
Emeritus Dean of Students. 1919.
B.A., Bellevue College; M.A., Columbia University. Graduate study, Edinburgh University.

EUGENE WHITE NIXON 3163 Indian Hill Blvd.
Emeritus Professor of Physical Education for Men. 1916.
B.A., Monmouth College; M.A., Columbia University. Graduate study, Illinois and California Universities.

EVERETT SAMUEL OLIVE South Laguna
Emeritus Professor of Piano. 1923.
B.Mus., Simpson College. Graduate study, Simpson College.

BENJAMIN DAVID SCOTT
Emeritus Professor of Public Address, 1923.
B.A., University of Southern California; S.T.B., Ph.D., Boston University. Graduate work, Brown and Harvard Universities.

GEORGE STEDMAN SUMNER 305 College Ave.
Emeritus Professor of Economics and Sociology. 1897.
Controller, 1922-1941.
B.A., Pomona College; B.A., Ph.D., Yale University.

WALTER TICKNOR WHITNEY 445 W. Tenth St.
Emeritus Professor of Astronomy on the Frank P. Brackett Foundation and Director of the Observatory, 1929.
B.S., M.S., Pomona College; Ph.D., University of Chicago.

PROFESSORS

RAY ERWIN BABER 999 College Ave.
Professor of Sociology on the Henry Snyder Foundation, 1939.
B.A., Campbell College; M.A., Ph.D., University of Wisconsin.

CARL BAUMANN 567 W. Eighth St.
Professor of German, 1931.
Ph.D., University of Basel.

LYMAN BENSON 1430 Via Zurita
Professor of Botany on the Henry Kirke White Bent Foundation, 1944.
B.A., M.A., Ph.D., Stanford University.

FLOYD A. BOND[3] 234 W. Eighth St.
Professor of Economics on the Stedman-Sumner Foundation, 1948.
B.A., M.A., Ph.D., University of Michigan.

FREDERICK BRACHER 230 W. Seventh St.
Professor of English and Secretary of the Faculty, 1944.
B.S., Oregon State College; M.A., Ph.D., University of California.

CRANE BRINTON
McLean Professor of Ancient and Modern History, Harvard University
Visiting Professor of History, first semester, 1954-55.
B.A., Harvard University; Ph.D., Oxford University, L.H.D., Ripon College, Kenyon College.

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Professor of Chinese Culture, 1941.
B.A., Lingnan University; Ph.D., University of Chicago; Fellow of the Academia Sinica.

SAMUEL CLAGGETT CHEW — 1060 College Ave.
John Hay Whitney Visiting Professor of English, 1954.
B.A., Ph.D., Johns Hopkins University; Litt.D., Johns Hopkins University.

HAROLD DAVIS — 612 W. Tenth St.
Professor of English on the Phebe Estelle Spalding Foundation, 1927.
B.A., Stanford University; B.A. and B.Litt., University of Oxford.

ROBERT SIDNEY ELLIS — 1237 Dartmouth Ave.
Professor of Psychology, 1931.
B.A., University of Arkansas; Ph.D., Clark University.

KENNETH G. FISKE — 585 W. Twelfth St.
Professor of Music, 1936.
B.Mus., M.Mus., American Conservatory of Music. Pupil of Leon Sametini, Jacques Gordon, Otokar Sevcik.

CHARLES A. FOWLER, JR. — 256 E. Second St.
Professor of Physics on the Seeley W. Mudd Foundation, 1947.
B.A., M.S., University of Utah; Ph.D., University of California.

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Professor of History on the Warren Finney Day Memorial Foundation, 1939.
B.A., Ph.D., Harvard University; B.Litt., University of Oxford.

HUGH J. HAMILTON — 1269-C Harvard Ave.
Professor of Mathematics, 1936.
B.A., University of California at Los Angeles; M.A., Ph.D., Brown University.

HUBERT HERRING — 225 E. Eleventh St.
Professor of Latin American Civilization, 1945.
B.A., Oberlin College; M.A., Columbia University; Graduate, Union Theological Seminary.

FRANCIS RAYMOND IREDELL[3]
Professor of Philosophy on the Robert C. Denison Foundation, and Dean of the Faculty, 1925.
B.A., Pomona College; M.A., Ph.D., Harvard University.

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Professor of Mathematics on the Joseph N. Fiske Foundation, 1931.
B.A., B.S., M.A., Ph.D., University of Missouri.

WILLIAM THOMAS JONES — 4201 Via Padova
Professor of Philosophy, 1938.
B.A., Swarthmore College; B.Litt., University of Oxford; Ph.D., Princeton University.

JOHN HASKELL KEMBLE — 452 West Sixth St.
Professor of History, 1936.
B.A., Stanford University; M.A., Ph.D., University of California.

FREDERICK LUDWIG MULHAUSER, JR. — 424 W. Eleventh St.
Professor of English, 1941.
B.A., College of Wooster; M.A., Ph.D., Yale University.

WILLIS E. PEQUEGNAT[3] — 433 Harrison Ave.
Professor of Zoology on the Willard George Halstead Foundation, 1940.
B.A., University of California; Ph.D., University of California at Los Angeles.

ERNEST ALBERT STRATHMANN — 160 W. Eleventh St.
Professor of English, 1932.
B.A., M.A., Ph.D., Johns Hopkins University.

ROBERT LOBINGIER STREHLE[2] — 1019 Dartmouth Ave.
Professor of Physical Education for Men, 1923.
B.A., Pomona College; M.A., Claremont Graduate School; Graduate study, University of Southern California, University of California, Stanford University.

JOHN ALBERT VIEG — 435 W. Eighth St.
Professor of Government, 1945.
B.A., St. Olaf College; M.A., University of Iowa; Ph.D., University of Chicago.

ROBERT L. WADLINGTON, JR. — 416 Grinnell Dr.
Professor of Military Science and Tactics, 1951.
B.S., University of Tennessee; Lt. Colonel, Infantry, United States Army.

ALFRED OSWALD WOODFORD — 443 W. Tenth St.
Professor of Geology, 1915.
B.A., Pomona College; Ph.D., University of California.

ASSOCIATE PROFESSORS

VIRGINIA PRINCEHOUSE ALLEN — 175 E. Twelfth St.
Associate Professor of Dramatics, 1930.
B.A., Pomona College; Graduate study, Department of Drama, Yale University; M.A., Claremont Graduate School.

WILLIAM G. BLANCHARD — 1495 Via Zurita
Associate Professor of Music and College Organist, 1936.
B.Mus., DePauw University; M.Mus., University of Michigan. Further study with Carl Weinrich and Hugh Porter in organ and with Seth Bingham in composition.

ELIZABETH CAWTHORNE — 228 Harvard Ave.
Associate Professor of Physical Education for Women, 1935.
B.A., M.A., University of California.

DARYL DAYTON — 262 W. Sixth St.
Associate Professor of Music, 1938.
B.Mus., Oberlin College; Graduate study in Berlin and New York with Artur Schnabel, Leonard Shure, Dalies Frantz, and Guy Maier.

EDWARD MONTGOMERY FRYER — 231 W. Tenth St.
Associate Professor of Physics, 1946.
B.A., Pomona College; M.E., Ph.D., Stanford University.

CORWIN HERMAN HANSCH — 129 E. Sixth St.
Associate Professor of Chemistry, 1946.
B.S., University of Illinois; Ph.D., New York University.

COLVIN HEATH — 750 Indian Hill Blvd.
Associate Professor of Physical Education for Men, 1922.
B.A., Pomona College; M.A., Stanford University.

CHARLES SHIVELY HOLMES — 1245 Dartmouth Ave.
Associate Professor of English, 1941.
B.A., Oberlin College; Ph.D., Princeton University.

GORDON CANFIELD LEE — 1035 Columbia Ave.
Associate Professor of Education, 1948.
B.A., University of California; M.A., Ph.D., Columbia University.

LUTHER JAMES LEE, JR.[3] — 443 W. Eleventh St.
Associate Professor of Government, 1941.
B.A., Pomona College; M.A., Ph.D., University of California.

ROBERT F. LEGGEWIE — 240 Annapolis Dr.
Associate Professor of Romance Languages, 1951.
B.S., Loyola University; M.A., University of Southern California; A.M., Ph.D., Harvard University.

MILES D. MCCARTHY — 444 Harrison Ave.
Associate Professor of Zoology, 1946.
B.S., West Chester State Teachers College; Ph.D., University of Pennsylvania.

DONALD B. MCINTYRE
Associate Professor of Geology, 1954.
B.Sc., Ph.D., D.Sc., University of Edinburgh.

EARL JAY MERRITT — 1865 E. Foothill, Glendora
Associate Professor of Physical Education, 1925.
B.A., Pomona College; M.A., Claremont Graduate School.

HENRY CORD MEYER — 470 Harrison Ave.
Associate Professor of History, 1946.
B.A., University of Colorado; M.A., University of Iowa; Ph.D., Yale University.

LOUIS B. PERRY — 2929 Claremont Hts. Dr.
Associate Professor of Economics, 1947.
B.A., M.A., Ph.D., University of California at Los Angeles.

EDWIN ALLEN PHILLIPS[3]
Associate Professor of Botany, 1948.
B.A., Colgate University; M.A., Ph.D., University of Michigan.

WILLIAM F. RUSSELL — 202 N. College Ave.
Associate Professor of Music, 1951.
B.A., Columbia University; M.A., Harvard University; doctoral candidate, Harvard University.

DWIGHT LEONARD RYERSON — 107 E. San Jose
Associate Professor of Zoology, 1946.
B.A., M.S., University of Arizona; Ph.D., University of California at Los Angeles.

ALVIN HEWITT SCAFF — 670 S. College Ave.
Associate Professor of Sociology, 1947.
B.A., University of Texas; B.D., Chicago Theological Seminary; M.A., Ph.D., University of Texas.

JOHN SEWALL SHELTON[3] — 1100 Oxford Ave.
Associate Professor of Geology, 1946.
B.A., Pomona College; Ph.D., Yale University.

R. NELSON SMITH — 115 Brown Dr.
Associate Professor of Chemistry, 1945.
B.A., Pomona College; M.A., Ph.D., Stanford University.

ELMER B. TOLSTED[1] 337 W. Fifth St.
Associate Professor of Mathematics, 1947.
B.S., M.S., University of Chicago; Ph.D., Brown University.

JOHN ROBERT VON ROHR 1111 Harvard Ave.
Associate Professor of Religion, 1945.
B.B.A., University of Minnesota; B.D., Chicago Theological Seminary; Ph.D., Yale University.

EMILIE ELIZABETH WAGNER 783 W. Tenth St.
Associate Professor of German, 1928.
B.A., Smith College; M.A., Pennsylvania State College. Doctorat de l'Université mention Lettres, Toulouse.

EDWARD WEISMILLER 137 N. College Ave.
Associate Professor of English, 1949.
B.A., Cornell College; M.A., Harvard University; D.Phil., University of Oxford; D.Litt., Cornell College.

ASSISTANT PROFESSORS

YOST U. AMREIN 346 Harvard Ave.
Assistant Professor of Zoology, 1951.
B.A., M.A., Ph.D., University of California at Los Angeles.

THOMAS B. BELL 417 E. Cucamonga Ave.
Assistant Professor of Physical Education for Men, 1947.
B.A., M.A., University of California.

ANDREW L. BOWMAN
Assistant Professor of Philosophy, 1954.
B.A., Stanford University; M.A., Ph.D., Columbia University.

MARGERY SMITH BRIGGS 420 Baughman Ave.
Assistant Professor of Music, 1943.
B.Mus., B.Mus.Ed., M.Mus., Chicago Musical College.

KAREN BURT[3] 14569 E. Teton Dr., Puente
Assistant Professor of Physical Education for Women, 1943.
B.E., University of California at Los Angeles; M.A., University of Southern California.

HARRY JOSEPH CARROLL, JR. 916 Harvard Ave.
Assistant Professor of Classics, 1948.
B.A., University of Akron; M.A., Ph.D., Harvard University.

FRANK C. CHILD
Assistant Professor of Economics, 1952.
B.A., University of Utah; M.A. and Doctoral Candidate, Stanford University.

LORNE D. COOK
Assistant Professor of Economics, 1954.
B.A., M.A., and Doctoral Candidate, University of Michigan.

EDWIN S. FUSSELL[3] 686 Colorado St.
Assistant Professor of English, 1951.
B.A., Pomona College; M.A., Ph.D., Harvard University.

ROBERT F. GALER 372 W. Seventh St.
Assistant Professor of Military Science and Tactics, 1953.
B.A., University of Washington; Graduate Study, Montana State University. Major, Infantry, United States Army.

JAMES E. GRANT — 676 W. Ninth St.
Assistant Professor of Art, 1950.
B. E., M.F.A., University of Southern California; Student at Jepson Art Institute.

JOEL GREENSPOON — 1130 Harvard Ave.
Assistant Professor of Psychology, 1951.
B.S., University of Virginia; M.A., University of Pennsylvania; Ph.D., Indiana University.

BURTON HENKE — 121 Brown Dr.
Assistant Professor of Physics, 1948.
B.A., Miami University; M.A., Ph.D., California Institute of Technology.

GRETCHEN GRAF JORDAN — 638 E. Sixth St.
Assistant Professor of English, 1947.
B.A., M.A., Ohio State University; Ph.D., University of California at Los Angeles.

KARL GEORGE KOHN[3]
Assistant Professor of Music, 1950.
Studied piano in Vienna; Teacher's Certificate and Artist Diploma, New York College of Music; B.A., Harvard University. Advanced study in conducting with Julius Pruewer, theory and composition with Paul Hindemith, Walter Piston, and Randall Thompson.

VINCENT H. LEARNIHAN — 220 W. Tenth St.
Assistant Professor of History, 1949.
B.A., M.A., Ph.D., University of California at Los Angeles.

RICHARD N. LOUCKS — 135 E. Eighth St.
Assistant Professor of Music, 1948.
B.A., Pomona College; M.A. and Doctoral Candidate, Eastman School of Music.

FRANCIS X. MAGGIPINTO — 457 Cambridge Drive
Assistant Professor of Romance Languages, 1952.
B.A., University of California at Los Angeles; M.A., Ph.D., Stanford University.

EDWARD W. MALAN — 118 Oakpark Drive
Assistant Professor of Physical Education for Men, 1950.
B.A., Pomona College; M.A., Claremont Graduate School; Graduate Student, University of California at Los Angeles.

JAMES G. MCCRAY — 1719 Elaine St., Pomona
Assistant Professor of Military Science and Tactics, 1953.
B.S., United States Military Academy; Graduate, Infantry School, Fort Benning Georgia; Captain, Infantry, United States Army.

LEE CAMERON MCDONALD — 121 W. Sixth St.
Assistant Professor of Government, 1952.
B.A., Pomona College; M.A., University of California at Los Angeles; Ph.D., Harvard University.

JOHN MOOI — 120 W. Seventh St.
Assistant Professor of Chemistry, 1953.
B.A., Hope College; Ph.D., Northwestern University

WILLIAM C. OLSON — 338 Harvard Ave.
Assistant Professor of Government, 1953.
B.A., University of Denver; M.A., Ph.D., Yale University.

PAUL MCRAE ROUTLY
Assistant Professor of Astronomy, 1954.
B.Sc., M.Sc., McGill University; M.A., Ph.D., Princeton University.

MAXINE J. SHURTZ 413 St. Augustine
Assistant Professor of Physical Education for Women, 1947.
B.S., Miami University; M.S., Wellesley College.

HERBERT B. SMITH 414 Elder Dr.
Assistant Professor of History, 1952.
B.A., M.A., University of Iowa; Ph.D., University of California.

FREDERICK SONTAG 642 N. College Ave.
Assistant Professor of Philosophy, 1952.
B.A., Stanford University; M.A., Ph.D., Yale University.

INSTRUCTORS

JESSE A. CONE, JR. Eli P. Clark Hall
Instructor in Physical Education for Men, 1953.
B.A., M.A., Stanford University.

ANN LINDSTAEDT COPPLE 205 W. Cucamonga Ave.
Instructor in French, 1953.
B.A., Wellesley College; M.A., University of Wisconsin; doctoral candidate, Northwestern University.

CORWIN DAVID CORNELL
Instructor in Speech, 1954.
B.A., M.A., and doctoral candidate, State University of Iowa.

DANIEL R. ELLER
Instructor in Music, 1954.
B.Mus., Candidate for M.Mus., University of Illinois.

WILLIAM L. FAUST 698 Colorado St.
Instructor in Psychology, 1953.
B.A., M.A., and doctoral candidate, Stanford University.

RAY FRAZER 1102 N. College Ave.
Instructor in English, 1952.
B.A., Pomona College; M.A., and doctoral candidate, University of California.

GORDON D. KAUFMAN 145 E. Sixth St.
Instructor in Religion, 1953.
B.A., Bethel College; M.A., Northwestern University; B.D. and doctoral candidate, Yale University.

JACK C. MILLER Rt. 1, Box 18, Upland
Instructor in Physics, 1952.
B.A., Pomona College; M.A., University of California; doctoral candidate, University of Oxford.

DONALD ROBERTSON
Instructor in Art, 1954.
B.A., University of New Mexico; M.A., and Doctoral Candidate, Yale University.

GERHARD N. ROSTVOLD 448 Springfield St
Instructor in Economics, 1952.
B.A., M.A., and doctoral candidate, Stanford University.

FRANK B. SALISBURY
Instructor in Botany, 1954.
B.S., M.A., University of Utah; Doctoral Candidate, California Institute of Technology

HELEN M. SMITH 120 W. Third St
Instructor in Violin, 1949.
B.A., Pomona College.

SALLY ANNE TAYLOR
Instructor in Physical Education for Women, 1950.
B.A., Pomona College; M.A., Stanford University; Graduate work, University of Southern California.

HOWARD THOMAS YOUNG
Instructor in Romance Languages, 1954.
B.S., M.A., and doctoral candidate, Columbia University.

LECTURERS

KOLMAN BLOCH 3914 Franklin Ave., Los Angele
Lecturer in Music, 1953.
First clarinetist, Los Angeles Philharmonic Orchestra.

ERNST HEINRICH EIN 461 University Circl
Lecturer in Russian, 1950.
Graduate, Law School of Tartu University; D. J., Institute of Roman Law, Rome.

LEWIS L. GRIMM 2147 S. San Antonio, Pomon
Lecturer in Engineering Drawing, 1953.
B.S., California Institute of Technology.

FREDERICK H. HAMMERSLEY 667 S. Rampart, Los Angeles
Lecturer in Painting, 1953.
Student, Chouinard Art Institute, Ecole des Beaux Arts, Paris, Jepson Art Institut

ALBERT H. HARBAUGH 3534 LeRoy St., San Bernardin
Lecturer in Music, 1953.
B.A., Colorado State College; M.Mus., University of Southern California.

MARGOT JEAN 224 S. Doheny Dr., Beverly Hil
Lecturer in Music, 1946.
Pupil of Jacob at the Royal Conservatoire in Brussels.

CHARLES B. LAWLER 3560 Padua Av
Lecturer in Sculpture, 1949.
B.A., University of California. Studied under Charles Malfray in Paris, Californ School of Fine Arts, San Francisco, and Alexander Archipenko.

JEAN PILON 3849 W. 27th St., Los Angel
Lecturer in Music, 1954.
B.A., M.A., Chicago Musical College.

DOROTHY REMSEN — 137 N. Serrano, Los Angeles
Lecturer in Music, 1953.
Harpist, Los Angeles Philharmonic Orchestra.

ROGER STEVENS — S. Melton, Pasadena
Lecturer in Music, 1953.
Flutist, Los Angeles Philharmonic Orchestra.

GEORGE H. TYLER — 140 E. Twelfth St.
Lecturer in Music, 1952.
Formerly first trumpet with Los Angeles Philharmonic Orchestra.

HSE-TSENG WEN — 1190½ W. 38th St., Los Angeles
Lecturer in Chinese Language, 1953.
Ph.B., National Peking University; M.A., Yenching University; Doctoral Candidate, University of Southern California.

MEMBER OF THE CLAREMONT GRADUATE SCHOOL FACULTY OFFERING COURSES IN POMONA COLLEGE

PAUL HAROLD KOCHER
Professor of English, Claremont Graduate School.
B.A., Columbia University; M.A., J.D., Ph.D., Stanford University.

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[1]Absent on leave, first semester, 1954-55.
[2]Absent on leave, second semester, 1954-55.
[3]Absent on leave 1954-55.

FACULTY COMMITTEES 1954-1955

First person named is the Committee Chairman

Administration—President, Sanders, Vieg, McCarthy, Bracher, Mulhauser, Benson, Gordon Lee.

Admission—Sanders, Beatty, Maple, Herbert Smith, Walton, Wheaton.

Athletic Council—Strehle, Jaeger, Perry, three student representatives, and two alumni representatives.

Pomona College representatives on the Southern California Intercollegiate Athletic Conference—Jaeger, Strehle.

Classification—Maple, Carroll, Fiske, Hamilton, Gordon Lee, Ryerson.

College Life Council—Amrein, Beatty, Jaeger, Russell, Sanders, von Rohr, Walton, and nine student members.

Courses of Study—Vieg, Fowler, Gleason, Hansch, Holmes, Jones, Kemble, Leggewie, Maple, Perry, Russell, Sanders, Walton.

English—Jordan, Hamilton, Henke, Learnihan, Maggipinto.

International Relations—Vieg, Ch'en, Child, Herring, Meyer, Olson, Scaff.

Library—Gleason, Allen, Benson, Ch'en, Davies, Scaff, Nelson Smith, Weismiller, Woodford.

Personnel—Maple, Amrein, Beatty, Faust, Nider, Sanders, Shurtz, Walton, and four student representatives selected by the Executive Council of the Associated Students.

Pre-Law—Perry, Child, Kemble, McDonald.

Pre-Medical—McCarthy, Beatty, Coltrin, Hansch, Henke, Leggewie, Ryerson.

Public Events—President, Meyer, Russell, Nelson Smith, Vieg, Wheaton, and three student representatives selected by the Executive Council of the Associated Students.

Religious Activities—von Rohr, Beatty, Kaufman, Malan, McDonald, Miller, Mooi, Rankin, Scaff, Herbert Smith, Walton, two representatives of Christian Association.

Scholarships and Student Aid—Walton, Baber, Beatty, Bracher, Malan, Meyer, Sanders, Nelson Smith, Wheaton.

Student Affairs—Sanders, Beatty, Cone, McCarthy, Mulhauser, Sontag, von Rohr, Walton, and four members of the Executive Council of the Associated Students.

Vocational Counselling and Placement—Beatty, Cawthorne, Ellis, Leggewie, Gordon Lee, Malan, Rostvold, Wheaton, and student members appointed by Associated Men Students, Associated Women Students, and the four classes.

The College

POMONA COLLEGE is an independent, privately endowed, coeducational institution of arts and sciences. Originally established in 1887 to serve its immediate region, the college now enjoys support from every section of the United States. Enrollment is restricted to approximately one thousand students, divided equally among the four classes.

The purpose of the College is the training of men and women for leadership among a freedom-loving people. Through this means, Pomona seeks to perpetuate the ideals of the society of which it is a part.

The College owes its inception to early settlers in Southern California whose previous affiliations led them to the founding of a "Christian College of the New England type." Under the leadership of the Reverend Charles B. Sumner, a devoted and self-sacrificing group were appointed members of the first Board of Trustees by the General Association of Congregational Churches of Southern California. The original trustees were: Henry K. W. Bent, Nathan W. Blanchard, Anson Brunson, Elwood Cooper, James T. Ford, James H. Harwood, Dexter D. Hill, Theodore C. Hunt, George W. Marston, John K. McLean, Henry A. Palmer, Seth Richards, Charles B. Sheldon, Charles B. Sumner, and Andrew J. Wells. These Christian pioneers, deeply committed to religious, political, and economic freedom, founded a college dedicated to the pursuit of truth and knowledge—principles to which it has ever remained steadfast.

With the freedom characteristic of Congregational organization, the College soon made itself the servant of a wider Christian fellowship. Today the Board of Trustees is a self-perpetuating body, free from ecclesiastical control but pledged under its charter to maintain the institution as truly Christian, though nonsectarian. Conscious of its heritage, the College gives every encouragement to both the study and practice of religion by its students. Within the curriculum the department of religion offers general courses designed for all students, and more specialized work for those desiring to concentrate in religion. Church and chapel services and the work of the Christian Association emphasize the place of religious thought and activity in the life of the campus.

The College was incorporated October 14, 1887, and instruction

was begun in September, 1888, in a small rented house in the city of Pomona. The following January an unfinished hotel in Claremont (now Sumner Hall), together with considerable land adjacent, was given to the College and the work was transferred to that place. Although this location was originally regarded as temporary, Claremont later became the permanent home of the College. By that time, however, the name of "Pomona College" had become so definitely fixed to the institution that it was retained, notwithstanding the location.

The College met a need for higher education in Southern California, and after the initial years its growth was constant. The first class was graduated in 1894, at which time the total number of college students was forty-seven. The preparatory department, essential in the beginning, was discontinued in 1910.

Pomona is a liberal arts college, which affords a full academic program in the social sciences, the natural sciences, and the humanities. The curriculum is planned to give a comprehensive understanding of society rather than technical training in highly specialized fields. The College believes that the best preparation for life is liberal education, and it aspires thus to train men and women for professional, business, and civic leadership.

From its foundation the College has emphasized the highest standards of scholarship, both in its program and in the selection of its students. Pomona's devotion to scholarship received national recognition as early as 1914, when the College was awarded a chapter of Phi Beta Kappa. Since 1924 the College has given further impetus to academic achievement by offering an honors type of instruction which affords opportunities for independent study to outstanding students.

Many distinctions have come to the college through the achievement of its alumni. The college ranks high in the percentage of its graduates listed in *Who's Who in America,* and in *American Men of Science.* In the latest survey, Pomona was one of the five leading liberal arts colleges in the nation in the number of graduates listed in the National Academy of Sciences. Many honors have been won by the faculty, among them a number of Guggenheim Fellowships, Fulbright Fellowships, and fellowships from the Fund for the Advancement of Education.

The College recognizes that a primary requisite in the promotion of high scholarship is the intimate contact of students and

faculty. Pomona maintains a large faculty in relation to its student body and constantly seeks to promote close relations between students and instructors. During 1954-55 the college will have a faculty member for every ten students enrolled. Elementary courses are divided into sections small enough to provide opportunity for discussion. In their upper division courses students have abundant opportunity for individual attention.

Pomona believes that the highest values of a liberal education can be attained best in a residence college. Through the efforts of its Trustees the College now possesses one of the finest groups of dormitories and dining halls to be found in the country. Approximately 890 students can be accommodated in the dormitories, and all students except the small group staying at home take their meals in the college dining halls.

Pomona College is the product of the individual initiative of America. It is an example of private enterprise at work for the public good. The College owes the development of the campus and the growth of its financial resources to the generosity of patrons, friends, and alumni. As an independent institution, without assistance from any governmental or church body, Pomona must rely upon gifts for the expansion of its program and for the increase of its endowment, upon which depends the financial strength of the college. From the contributions of her benefactors, the total assets of Pomona are now approximately $14,000,000, of which $6,900,000 is in endowment.

THE ASSOCIATED COLLEGES

Pomona College is the original institution in a group of four Associated Colleges, of which the other members are Claremont College, Scripps College, and the Claremont Men's College. Although each college is autonomous and independently controlled by its own Board of Trustees, the four institutions cooperate in their academic programs and in use of certain common facilities.

The group, which represents a combination of English and American practices, arose from the desire of Pomona College to maintain for itself the advantages of a small college and at the same time to provide at Claremont an educational opportunity for the increasing numbers of young men and women who at the end of World War I were seeking admission to the College.

Under the leadership of the Pomona trustees, the institution now

incorporated as Claremont College was established on October 14, 1925, for the inauguration of the new plan. It assumed responsibility of acting as a central coordinating agency, the direction of graduate instruction for the Associated Colleges, and the foundation of new institutions as they might be required. Claremont College conducts its instructional program under the name of "The Claremont Graduate School," and the presidents of the undergraduate colleges, in addition to their duties in their respective colleges, serve in rotation for two year terms as head of Claremont College with the title of Provost. In addition to its own appointees the faculty of the Claremont Graduate School includes most members of the three undergraduate faculties.

An early objective of the group plan was the establishment of a college for women. In September, 1927, Scripps College, named in honor of Miss Ellen Browning Scripps, whose generosity and vision made it possible, was opened as a residence college for 225 women. From the beginning the main feature of its curriculum has been a unified sequence of courses in the humanities.

Claremont Men's College, the third undergraduate institution, was established in 1946 as a liberal arts college training particularly for business and public administration. The College has developed residence and academic facilities for approximately 300 students.

The four colleges cooperate in their academic programs and thus afford for their students many of the advantages of a university center. The undergraduate colleges open their classes without tuition charges to students in the other undergraduate institutions. Selected courses in the Claremont Graduate School are open to seniors at Pomona, Scripps, and Claremont Men's College.

The colleges maintain a common business office and a joint health service which includes the full time services of two physicians and the operation of a thoroughly up-to-date infirmary. A joint library service purchases and catalogues books for the three libraries. Bridges Auditorium, which seats 2600, is administered by Claremont College for the group.

CLAREMONT

One of Pomona's greatest assets is the town of Claremont, a community of 8,000 that has grown up around the college. The early settlers were New Englanders and they gave to Claremont an atmosphere unusual on the Pacific Coast.

With the growth of Pomona and the foundation of the other associated colleges, Claremont has come to be a cultural center of unusual significance. Three private preparatory schools are now located in Claremont. Under the auspices of the Congregational Church, Pilgrim Place, a community for retired ministers and missionaries, was founded in 1915. Each winter the village entertains a number of visitors who come to enjoy the climate and the beauty of citrus groves beneath towering, snow-capped mountains.

Although Pomona College students enjoy in Claremont the charm and intimacy of a New England village, they are in no sense isolated from the life of Southern California, for the college is only four miles from Pomona, a city of over 45,000 inhabitants, and thirty-five miles from Los Angeles, with which it has hourly bus connections. Claremont is on the main line of the Santa Fe Railway, and the transcontinental lines of the Union Pacific and the Southern Pacific pass through the city of Pomona.

The Campus

POMONA COLLEGE occupies about one hundred and twenty acres, of which sixty are included in Blanchard Park, the gift of Nathan W. Blanchard, about ten in Alumni Athletic Field, and fifty in the campus proper. The College centers on Marston Quadrangle, built and endowed by George W. Marston, 1850-1946, distinguished citizen of San Diego, an original trustee of Pomona and for many years president of the board.

The twenty-seven buildings on the campus are heated from a central plant which serves the four colleges.

ADMINISTRATIVE AND GENERAL ACADEMIC BUILDINGS

Mary L. Sumner Hall, a hotel which in 1889 became the original building of the college, was removed from its first site in 1922, remodeled for administrative and faculty uses, and named in memory of the wife of Rev. Charles B. Sumner, LL.D., one of the Founders of Pomona College.

Holmes Hall, the first academic building erected by the college in 1893, is a memorial to Cyrus W. Holmes, Jr., of Monson, Massachusetts. Reconstructed in 1916 in conformity with more modern plans for buildings and campus, it is now devoted to recitation rooms, departmental offices, and an auditorium seating 750.

The Andrew Carnegie Building, a gift of Mr. Carnegie, which served as the College Library from its construction in 1908 to June, 1952, was remodeled in 1952, for use as a classroom and office building for the Social Sciences.

The Associated Colleges maintain a joint Business Office in Harper Hall, constructed in 1931.

ART AND MUSIC BUILDINGS

Rembrandt Hall, built in 1914, is devoted to the Department of Art. The upper floor contains studio and work rooms; the lower floor two galleries, one of which was added in 1937.

The Mabel Shaw Bridges Hall of Music, given by Mr. and Mrs. Appleton S. Bridges of San Diego in 1915, in memory of

their daughter who died while a student at Pomona College, offers excellent facilities for the study of music. It contains, in addition to private studios, an unusually beautiful auditorium seating 800.

The Mabel Shaw Bridges Auditorium, also the gift of Mr. and Mrs. Appleton S. Bridges in memory of their daughter, was constructed in 1931. It has a seating capacity of 2600, and is administered by Claremont College on behalf of the Associated Colleges.

The Open-Air Theatre, built in 1910, is located in Blanchard Park.

SCIENCE BUILDINGS

Pearsons Hall of Science, the gift of Dr. D. K. Pearsons in 1898, contains the laboratories and lecture rooms of the Departments of Physics and Mathematics.

The Frank P. Brackett Observatory, the gift of Mr. Llewellyn Bixby, '01, has served the Department of Astronomy since 1908.

The Seaver Laboratory, a separate building in the Observatory area, was completed in 1950. The dome houses the Clara Whitney Shatto Reflector Telescope, and the main floor contains classrooms and a library.

Harwood Hall, given in 1915 by Mr. A. P. Harwood, contains lecture rooms and laboratories for the use of the Department of Psychology.

The Mason Hall of Chemistry, the gift of Mr. W. S. Mason, in 1922, provides ample facilities for the study of Chemistry, and also houses the Department of Geology.

The Crookshank Hall of Zoology, given in 1922 by Dr. D. C. Crookshank, is occupied by the Departments of Botany and Zoology.

HONNOLD LIBRARY

The new Honnold Library, which was given by Mr. and Mrs. William L. Honnold to Claremont College for the Associated Colleges, houses the Pomona College Library along with the libraries of Claremont Men's College, the Claremont Graduate School, and a part of the Scripps College Library. Since the opening of this splendid building in the autumn of 1952, Pomona and the other Associated Colleges have enjoyed one of the finest libraries in the West.

PHYSICAL EDUCATION AND ATHLETIC FACILITIES

The War Memorial Gymnasium, given to the college by students, alumni, trustees, and friends, commemorates the men and women of Pomona College who gave their lives in World War I and World War II. Completed in December, 1950, the Memorial Gymnasium is one of the finest and most beautiful college gymnasia in the country. The building includes an excellent basketball court with seats for 1200 spectators, a classroom, a memorial library, staff offices, and commodious shower and locker rooms.

The Memorial Training Quarters, constructed in 1922 as a memorial to the men of Pomona College who lost their lives in World War I, has been incorporated as the east wing of the new Memorial Gymnasium. It represents the gift of the parents of one of these men, Sheldon Gerry, '17, supplemented by the gifts of alumni, students, and friends. Among other facilities the Training Quarters contain dressing rooms for swimming for both men and women, and the freshman locker rooms.

A swimming pool, of the standard size for water polo, and fully equipped with modern appliances, is open to both men and women for instruction and recreation throughout the year.

Alumni Field, consisting of about ten acres, has been developed by the alumni into athletic grounds admirably equipped and unsurpassed in the Southwest in beauty of setting. First-class tennis courts, an excellent track, baseball and football fields, also hockey and basketball courts are within the limits of the campus. A beautiful ticket booth, wall and gate to Alumni Field were built in the autumn of 1950, as a gift of the class of 1916.

The William Renwick Gymnasium, named in memory of an early donor to the college, was first erected as a military barracks in World War I. It provides general facilities for the women's department of physical education.

RESIDENCE AND DINING HALLS FOR MEN

Helen R. Walker Hall, the gift of Helen R. Walker of Glendale, California, was opened for use in 1953. Its rooms, grouped around three courtyards, accommodate 108 men. At the east, Walker Hall also includes a lounge and reception room for the entire men's campus.

The Eli P. Clark residence unit for men, erected in 1929, includes three dormitories with accommodations for 278 students.

The Albert K. Smiley Hall, the first dormitory for men, built in 1908, accommodates sixty-nine students.

Accommodations for married men may be had in apartments originally given to the college by the United States government for use of veterans.

Frary Dining Hall for Men, given by Mr. George W. Marston in 1929 in memory of Rev. Lucien H. Frary, a Trustee from 1892 to 1903, seats 375 in the main hall and includes three smaller dining rooms for special uses.

RESIDENCE AND DINING HALLS FOR WOMEN

Harwood Court, constructed in 1921 and named in memory of Mrs. Charles E. Harwood, and which also includes Strong Hall, accommodates 180 women.

Florence Carrier Blaisdell Hall, erected in 1936 and named in honor of Mrs. James A. Blaisdell, wife of the fourth President of the College, houses 120 women.

Della Mulock Mudd Hall, which honors the wife of the late Seeley W. Mudd, a Trustee of Pomona, was completed in the spring of 1947. The building has accommodations for 100 women, most of them in single rooms.

The College also maintains three houses, Baldwin House, Brackett House, and Kenyon House, as residences for women.

Beautiful and commodious dining facilities are available for all women students. Residents of Harwood Court are served by the Aurelia Squier Harwood Memorial Dining Hall built in 1931.

The Mary McLean Olney Dining Hall, constructed in 1936, has accommodations for 120 students.

Jessie E. Gibson Dining Hall, built in 1949 in honor of the former Dean of Women, serves the students living in Blaisdell Hall and Mudd Hall.

EDMUNDS UNION

The Charles K. Edmunds and Katharine P. Edmunds Student Union, which honors the late fifth President of the College and his wife, provides a social center for all students and an attractive ballroom in which all formal dances are held. This building, made possible by the gifts of many parents supplemented by funds from the Associated Students and the bequest of the late Florence Riley, was built in 1937 and houses student offices, including pub-

lications, the graduate manager's office, and the Cooperative Store.

A new east wing to Edmunds Union, which houses the fountain and sandwich facilities, and also includes a full basement for recreational use, was completed in January, 1951.

HEALTH FACILITIES

Memorial Infirmary, given in 1931 in memory of Colonel Seeley W. Mudd, is administered by Claremont College and is operated jointly for the benefit of students in all the Associated Colleges at Claremont. Twenty beds are available. The Infirmary is situated on Amherst Avenue, north of Foothill Boulevard.

The Baxter Medical Building, the gift of Doctor and Mrs. George E. Baxter to Claremont College, serves the students of the Associated Colleges. It provides an office where the College Physicians and a nurse are available for consultation and treatment for minor ailments.

OTHER FACILITIES

The President's House at 345 North College Avenue was the gift of Dr. D. K. Pearsons. It was constructed in 1897, and has been the home of all Presidents of the College since that time.

A replica of the original house in Pomona in which the College first opened in September, 1888, was erected on the campus in 1937 through the generosity of an anonymous donor.

The College operates its own independent deep well water supply, the gift of Edward P. and Mary G. Bosbyshell.

THE CLAREMONT INN

The Claremont Inn, beautifully located on College Avenue opposite the campus since 1906, is the guest house of the colleges and community, and is owned by Pomona College. Parents and friends are invited to use the facilities of the Inn for longer or shorter periods during visits to Claremont. Public and private dining rooms and accommodations for sixty guests under both the American and European plans are provided. Students who do not return home during vacation periods find the Inn a convenient vacation home. The hospitality of the Inn expresses the friendliness of the colleges and the community.

Mason Hall of Chemistry

Pomona has maintained since 1919 a Voluntary Unit of the ROTC

Admission

STUDENTS ARE ADMITTED to Pomona College upon evidence which satisfies the Committee on Admissions that: (1) the applicant possesses the necessary preparation and ability to carry successfully the academic program offered here, and will actually use them to that end; (2) the College, with its program and traditions, and the applicant, with his capacities, interests and needs, are mutually well suited to each other.

The Committee tends to judge the fitness of an applicant in terms of reasonably definite academic prerequisites but it makes every effort to form judgments on the basis of the total picture rather than in terms of narrowly technical requirements.

Any person interested in preparing for Pomona, or any school official who is responsible for directing the preparatory programs of students is invited to call on the Dean of Admissions at any time regarding the acceptability of candidates or for advice on specific programs.

For further information, write to Office of Admissions, Sumner Hall, Pomona College, Claremont, California.

ADMISSION TO FRESHMAN STANDING

The College does not require any particular pattern of secondary school courses, but assumes candidates will have taken a college preparatory course. Under ordinary circumstances they are advised to complete at least three years of satisfactory study in English. Two years of mathematics are advised for all candidates. Those who plan to study mathematics or the physical sciences in college should have at least three years or more, including trigonometry. (See page 84.) Foreign language credit is not required for admission but for concentration in many fields a reading knowledge of at least one foreign language is essential. It is much to the advantage of a student to begin the acquisition of this knowledge before entering college and this is strongly advised. Two or three years in social studies and two or three in sciences are also advised. The major attention is given to the quality of preparation rather than to the exact arrangement of subjects.

It is normally assumed that candidates will have received a high school diploma. Students from foreign countries or those who are

following unusual patterns of preparation may submit other evidences of their readiness to undertake college work.

All freshman candidates are required to take the Scholastic Aptitude Test administered by the College Entrance Examination Board. (See page 37 for further information.) This requirement does not lessen the importance of the school record, the personal ratings and personal interviews. The test results will be used in the academic advising of freshmen and replace some of the aptitude tests previously given during the registration period.

It is recommended that applications be filed at the beginning of the senior year in high school. The Scholastic Aptitude Test should be taken either in January or in March and the candidate is responsible for registering for this with the College Entrance Board. The regular selection of new students will be made from applications received on or before March 15, provided candidates have taken the Scholastic Aptitude Test in March or earlier.

Applications will be accepted between the dates of March 15 and August 15 from candidates who have already taken the Scholastic Aptitude Test or who plan to take it on May 16 or August 12 but there is no assurance that there will still be vacancies at that time. These applications will be acted upon as promptly as possible.

Since there are more applicants than can be accepted, the Committee attempts to select the strongest candidates with little regard to the chronological order in which applications are received. In all cases admission is granted subject to evidence of satisfactory physical condition on the part of the candidate.

ADMISSION TO ADVANCED STANDING

In considering applications for advanced standing the College follows the general policy used for freshman candidates. It requires honorable dismissal from the previously attended institution with an average grade of C or better in liberal arts type of courses taken in accredited collegiate institutions, together with recommendation from the proper college officials. In addition all candidates are required to submit scores on the Scholastic Aptitude Test given by the College Entrance Examination Board. It is not necessary to repeat the test if it was taken during the Senior year in secondary school. The transcripts must show the detailed record in all secondary as well as all collegiate institutions attended.

Credit allowed for work taken in other institutions will b

determined by the Classification Committee after the candidate has been accepted.

ADMISSION TO SPECIAL CLASSIFICATION

Mature students, particularly those equipped for advanced studies may be admitted as special students to courses for which, by ability and preparation, they may be fitted. Special students are not candidates for a degree, though students admitted to this classification may be accepted later as candidates for a degree.

THREE YEAR PROGRAM FOR JUNIOR COLLEGE GRADUATES

To enable junior college graduates and others who enter with advanced standing to continue their education on the basis of a three-year program leading to the Master's degree as well as to the Bachelor's degree, Pomona College and the Claremont Graduate School have planned their offerings so that the closest articulation of undergraduate and graduate study is possible.

COMBINED PLANS WITH MASSACHUSETTS INSTITUTE OF TECHNOLOGY AND CALIFORNIA INSTITUTE OF TECHNOLOGY

Along with several other liberal arts colleges, Pomona has an arrangement with the Massachusetts Institute of Technology and with the California Institute of Technology whereby qualified students may receive the Bachelor of Arts degree from Pomona and a Bachelor of Science degree from M.I.T. or C.I.T. after a combined five-year program, of which the first three years are taken at Pomona. Without the combined plan at least six years would usually be required to complete the work for both degrees. Students under the combined plan will be accepted at the Massachusetts Institute of Technology or the California Institute of Technology without examination if recommended by Pomona. For detailed program see page 86.

APPLICATION PROCEDURE

Application for admission to Pomona College must be made on the form furnished by the college and all credentials must be filed with the Committee on Admissions. The forms and credentials required are:

1. *Application Form I.* Including $5.00 fee, which is not refundable. Make checks or money orders payable to Pomona College.
2. *Two Personal Rating Scales, Form II.* Confidential reports by

the principal or other school official, and by a class-room teacher, sent by them to the Committee on Admissions.

3. *A Statement of Qualifications.* The Committee seeks the most complete possible picture of each candidate and to this end requires a personal, autobiographical statement to supplement the other information. Some or all of the following points may be discussed although the candidate need not consider this an outline to be followed: (1) your preparation or background for college other than that which will be evident from your school record; (2) your major aptitudes and interests either of an academic or non-academic nature; (3) your purposes in going to college; (4) your particular reasons for choosing Pomona College. It is permissible to discuss the paper with others but the writing, both as to ideas and the form in which they are expressed, must be the candidate's. The letter may be typed. The length should not exceed 1,000 words.

4. *Official Transcript* of high school record to date. At the time of selection of candidates, work in progress will be considered in fulfillment of requirements, and admission will be granted subject to the filing of a final transcript showing the satisfactory completion of all secondary school work. The transcript form ordinarily used by the school is satisfactory. It should include an interpretation of the grading system. It should not be sent until the first half of the senior year has been completed.

   (In addition to the above, the Scholastic Aptitude test of the College Entrance Examination Board must be taken.)

5. *Medical Certificate,* signed by a licensed M.D., on a form furnished by the college after admission has been granted provisionally. The college reserves the right to reject students for health reasons.

6. *Room Deposit* of $50 due within thirty days of date of acceptance. This deposit will be held until the student's final semester at which time it will be credited on the semester fees. No refund of the room deposit will be made if a student withdraws before entrance.

   Failure to make this payment results in the cancelling of admission. Candidates on the alternate list for whom places are not provided will have the entire deposit refunded.

In addition to the procedure noted above, a candidate for admission to advanced standing must file an official transcript, or transcripts, of all college work for which he has been previously registered and a statement of honorable dismissal from the institution last attended.

SCHOLASTIC APTITUDE TEST

All candidates for admission to Pomona College are required to take the Scholastic Aptitude Test administered by the College Entrance Examination Board and are held responsible for making application to the Board. Students who plan to enter in September are advised to take the test in December, January or March. Students who plan to enter in February should take it in May, August or December. Either of the three dates is equally satisfactory.

The College Entrance Examination Board will hold five complete series of examinations in 1954-55. Application to take an examination must be filed three weeks in advance of the examination date. The schedule for the examinations with the dates of registration is as follows:

Examination Date	*Regular Registration Closes*	*Late Registration Closes*
December 4, 1954	November 13, 1954	November 27, 1954
January 8, 1955	December 14, 1954	January 1, 1955
March 12, 1955	February 19, 1955	March 5, 1955
May 21, 1955	April 30, 1955	May 14, 1955
August 10, 1955	July 20, 1955	August 3, 1955

Applicants are required to take the Scholastic Aptitude Test only for admission to Pomona College. It is not necessary to take the Achievement Tests.

Copies of the Bulletin of Information may be obtained without charge from the College Entrance Examination Board. The Bulletin contains rules regarding applications, fees and reports; rules for the conduct of the tests; advice to candidates; descriptions of the tests; sample questions; and lists of examination centers.

Candidates should make application by mail to the College Entrance Examination Board. Students who wish to take the examinations in any one of the following western states, territories, and Pacific areas: Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming,

Alaska, Hawaii, Australia, and all Pacific islands including Formosa and Japan, should address their inquiries and send their applications to College Entrance Examination Board, P. O. Box 9896, Los Feliz Station, Los Angeles 27, California.

All others should write to College Entrance Examination Board, P. O. Box 592, Princeton, New Jersey.

Application forms will be sent to any teacher or candidate upon request. When ordering the forms candidates must state whether they wish applications for the December, January, March, May or August tests. Application forms for the December tests will be available early in the fall; those for the January tests will be ready for distribution about November 24; those for the March series, January 3; forms for the other two series will be available immediately after the preceding series has been held. A copy of the Bulletin of Information is sent to every candidate requesting an application blank.

Each application to the College Entrance Board should be accompanied by the examination fee of $6.00.

Candidates are urged to send in their applications and fees to the College Entrance Board at least several weeks before the closing date, since early registration allows time to clear up possible irregularities which might otherwise delay the issue of reports. Under no circumstances will an application be accepted if it is received at the Board office later than one week prior to the date of the examination. No candidate will be permitted to register with the supervisor of an examination center at any time. Only properly registered candidates, holding tickets of admission to the center at which they present themselves, will be admitted to the tests. Requests for transfer of examination center cannot be considered unless these reach the Board office one week prior to the date of the examination or earlier.

The Board will report the results of the tests to the institutions indicated on the candidates' applications. The colleges will, in turn, notify the candidates of the action taken upon their applications for admission. Candidates will not receive reports upon their tests from the Board.

Expenses

TOTAL TUITION payment by students of $750 a year covers only approximately 62% of the actual cost of operating the college. The remainder, which in 1954-55 will be approximately $482 per student, is provided by gifts from those interested in furthering the high purpose of the college, by income from endowment, and other sources.

The College reserves the right to change any of the following fees at any time should conditions make it necessary.

General Fees

TUITION, including health service, season tickets for Artist Course and Athletic Events	per semester	$375.00
ASSOCIATED STUDENT DUES	per semester	10.00
GRADUATION FEE		10.00

Residence Fees

ROOM AND BOARD	per semester	$362.50

(For men living in Smiley Hall the charge is $322.50 per semester. In Clark Hall a few rooms with fireplaces are available for men, for which the charge is $385.50 per semester. Smiley Hall is not open to freshmen.)

ROOM DEPOSIT, applicable on payment of bills for final semester of residence. (See pages 36, 41.)	50.00
RESIDENTIAL BREAKAGE DEPOSIT, held until a student withdraws from college. (See page 41.)	10.00

Departmental Fees

For exact fees in science and music see Courses of Instruction.

LABORATORY FEES	$ 2.00 to 10.00
LABORATORY BREAKAGE DEPOSITS	4.00 to 10.00
FEES FOR APPLIED MUSIC	25.00 to 60.00
PRACTICE FEES, APPLIED MUSIC	2.50 to 15.00

Fees for Special Privileges

LATE REGISTRATION (See page 76.)	$2.00 to 10.00
CHANGE OF PROGRAM (See page 76.)	3.00
SPECIAL EXAMINATIONS	2.00
CAMPUS FEE FOR AUTOMOBILES (See page 66.)	2.00 to 4.00

Fees for Part-time Students

SPECIAL TUITION FOR STUDENTS CARRYING LESS THAN TEN UNITS OF WORK	per unit $37.50
AUDITOR'S FEE	per course $10.00

RESIDENCE FOR MEN

The College is equipped with residence and dining hall facilities to accommodate most men students. It is expected, and the College may require, that men not actually living at home will room and dine in college halls. All freshmen are required to room on campus unless, for special reasons, they are authorized at the time of admission to room at home or near the campus. Students living at home or working for board or room may make special arrangements with the Dean of Men.

Residential campus privileges are provided only on the basis of an inclusive charge varying according to location of room and including board. The standard charge in Clark and Walker Halls is $362.50 per semester, but a few rooms with fireplaces are available at $385.50. The price for rooms in Smiley Hall is $322.50 per semester. Smiley Hall is open only to upperclassmen. These charges include necessary furniture, rugs, bed linen and towels, the laundering of the same and the care of rooms. Linens will be changed and beds made in all halls once a week. On the remaining days men will make their own beds. The only articles to be furnished by the students are blankets, spreads for single beds, and study lamps.

Off-campus housing arrangements for unmarried students must be approved in advance by the college. The Office of Dean of Men maintains a list of approved residences, with description of accommodations available, rates, and similar information.

For married students there are a few Veterans Unit apartments available on a modest rental basis, furnished or unfurnished. For further information the married student should correspond with the Admissions Office after or at the time of formal admission. Assignments are made in the Office of the Dean of Men.

RESIDENCE FOR WOMEN

Women students are expected to room in residence halls and board at college dining rooms. Freshmen are normally required to reside in Harwood Court. Students living at home or working for room or board may make special arrangements with the Dean of Women.

Harwood Court and the three College Houses have both single and double rooms, as well as suites. Except for a few double rooms, single accommodations are provided in Blaisdell Hall and Mudd Hall. Each room is adequately furnished; the only articles to be provided by the student are linen, blankets, and spread for a single bed. Residential campus privileges are provided on the basis of an inclusive charge of $362.50 per semester.

RESIDENCE REGULATIONS

The residence privilege does not include the use of rooms during vacation periods. The residence halls are open for new students the Friday before the opening of the college year and for returning students the day of registration. The residence and boarding privileges end 24 hours after the last examination at the end of each semester for all students except seniors and those asked by the college to remain through Commencement. The residence and dining halls are closed the day after Commencement.

Each student is required to make a deposit of $50 for a room in the dormitory. This deposit is held by the college until the student's final semester of the Senior year in residence, when it is applied on his college bills for that semester. The deposit is refunded at the time of withdrawal to students who withdraw before graduation, provided they have been in residence for one semester or more and give notice of withdrawal not less than sixty days before the opening of the term for which the student is withdrawing.

A residential breakage fee of $10 is required from each student, from which deductions are made for individual and communal damage to college property, any balance being credited to the student's account on graduation or withdrawal.

The College reserves the right to dismiss from a residence hall without rebate of room rent and to withdraw dining hall privileges in the case of any student who becomes an undesirable occupant.

The College may dispose of any articles left by students for more than six months.

BILLS

All college bills are due each semester in advance and must b paid by the student at the time of registration. Students wishing t arrange for payment by installments should confer with the Bursa before entering, preferably in the summer preceding registration

A service charge for deferment will be made as follows:

First semester

Balance payable on or before November 1	$1.50
Balance payable one-half November 1 and one-half December 1	2.25
Balance payable one-third November 1, one-third December 1, and one-third January 1	3.00

Second semester

Balance payable on or before March 1	1.50
Balance payable one-half March 1, one-half April 1	2.25
Balance payable one-third March 1, one-third April 1, and one-third May 1	3.00

It is expected that payment of installments will be made on o before due dates; failure to do so without the approval of th Bursar will result in an additional service charge.

No refunds are made to those leaving before the end of th semester except that in the case of those leaving before the middle o the semester because of illness one-half of the tuition and laborator fees are refunded and in the case of those dropping out for goo cause within a week of their registration all but $25.00 is returned No refund is made on a room payment unless the room is re-rente to someone not then rooming in a college residence hall.

Students with unpaid bills are not given honorable dismissal o graduated. Seniors must settle all college bills and library obliga tions by four p.m. of the fourth day preceding Commencement i they are to receive their diplomas with their class.

Scholarships and Student Aid

THE COLLEGE offers an extensive scholarship and student aid program, and approximately $129,000 will be available to Pomona students for scholarships, fellowships, grants-in-aid, and prizes during 1954-55. These funds are derived from endowments for scholarships and student aid, from individual and corporation donations, from the annual Alumni Fund, and from the general college budget.

Scholarships are awarded to students who achieve outstanding academic records and who need financial assistance to attend college. In making awards the Committee on Scholarships considers the candidate's promise in literary, scientific, or other scholastic ability, qualities of manhood or womanhood, force of character, power to lead and to take an interest in the college community, and physical vigor as shown by interest in outdoor sports or in other ways.

Pomona College has adopted, with certain other West Coast colleges and universities, a joint policy aimed at achieving uniformity and equity in the distribution of scholarship funds to entering students. All these institutions make a distinction between 1) recognition of academic honors and achievement, and 2) recognition of need for financial assistance. Honors at Entrance are awarded in recognition of distinguished academic achievement. They are awarded without regard to need and carry no monetary grant. No special application is required for Honors at Entrance because all high ranking candidates for admission are considered for these awards. Scholarship grants are awarded in recognition of need for financial assistance. The academic record and apparent promise of candidates will determine the selection of those to receive these scholarships, but the size of the stipend will be determined in accordance with need. Entering students in need of assistance should apply for scholarship grants by filing an application on forms provided by the College by March 15, 1955.

SCHOLARSHIPS FOR FRESHMEN

FOUR-YEAR SCHOLARSHIPS

George F. Baker Four Year Scholarships: Pomona is one of twelve colleges to receive a grant of $50,000 from the George F. Baker Trust of New York, for the purpose of awarding scholarships to outstanding young men. The plan

of the Baker Trust is to seek out future leaders of American society and to make it financially possible for them to attend college. Four or more scholarships will be awarded with stipends which may go as high as $1250 annually according to financial need. Open to men students only.

The Union Carbide Scholarships: Pomona College is one of a group of institutions participating in a nationwide scholarship plan established in 1953 by the Union Carbide and Carbon Corporation. These scholarships are designed to give aid to promising men and women who have an ambition to follow careers in business or industry. Three scholarships covering the complete cost of tuition for the full four-year academic course, with a reasonable allowance for necessary books and required fees, are available in each entering class at Pomona. Twelve Union Carbide scholars will be in residence when the program is in full operation. Applicants must have good scholastic standing, be recommended by their schools, and either need financial assistance or possess extraordinary talent or ability.

Lockheed Scholarships: The Lockheed Aircraft Corporation has established at Pomona a four-year scholarship for students concentrating in a subject applicable to a career in the aircraft manufacturing industry. Such fields of concentration may be either in the sciences or the social sciences. Lockheed Scholarships include full tuition and $500 a year toward other college expenses.

Alumni Four Year Scholarships: Five or more scholarships will be awarded from the Alumni Scholarship Fund with stipends which may go as high as $1,000 annually according to financial need. Open to men or women students.

Pacific Employers Insurance Company Scholarships: A four-year scholarship in each entering class, for a young man planning to enter any field of business, has been established at Pomona College by the Pacific Employers Insurance Company. Stipends are based on financial need and may be as much as $1000 annually.

Maria K. Lloyd Scholarship: This four-year scholarship is available to an outstanding candidate who is now a resident and citizen of Greece or Turkey. The amount of the award will be determined by the student's need. It may cover as much as all college expenses for the full four years.

The above scholarships will be renewed for three years if the recipient's performance in college merits a continued award.

The four-year scholarships are awarded not only on the basis of the academic record but also on the all around contribution to the life of the secondary school and community, and the promise of such contribution in college and afterwards. First consideration will be given to candidates nominated by the principal or headmaster of the secondary school.

ONE-YEAR SCHOLARSHIPS

The following scholarships are available on a competitive basis to candidates for admission to the freshman class in the year 1955-56. Half of the stipend is available in the first semester and half in the

econd semester of the freshman year. The award for the second emester is normally made only if the recipient is in good standing nd has maintained a scholastic record of B or better. The stipends or all scholarships will be determined according to financial need.

The Henry E. Storrs and Julia A. Storrs Scholarships: Two scholarships, vith maximum stipend of $750 each, open to men.

The Margaret Burton Harwood Scholarships: Two scholarships, with naximum stipend of $750 each, open to women. Two scholarships with maxinum stipend of $750 each, open to both men and women.

The Thomas J. Dowling Scholarship: One award of $600, open to a man r woman.

The Henry G. Brainerd and Fannie Howard Brainerd Memorial Scholarhips: Two awards, with maximum stipend of $750 each, open to men and vomen.

College Scholarships: Nine scholarships, varying in amount from $200 to 900 each, open to both men and women.

California Scholarship Federation Award: A scholarship with maximum tipend of $750 given by Pomona College to a man or woman nominated by he California Scholarship Federation.

Chemistry Contest Scholarship: A scholarship with maximum stipend of 750 is offered by Pomona College to a winner in the annual High School Contest sponsored by the Southern California Section of the American Chemical Society. The recipient must be among the top fifteen contestants, nd must satisfy all entrance requirements of the College.

The Physics Contest Scholarship: A scholarship with maximum stipend of 750 is offered by Pomona College to a winner in the annual High School Contest sponsored by the Southern California Section of the American Association of Physics Teachers. The recipient must be among the top fifteen contestants, and must satisfy all entrance requirements of the College.

JUNIOR COLLEGE SCHOLARSHIPS

The following scholarships are available for candidates from junior ollege, for the year 1955-56, half of the stipend being available in he first semester and half in the second semester of the year. The ward for the second semester is made only if the recipient is in ood standing and has maintained a scholastic record of B or etter. Candidates for Junior College scholarships are required to ake the Scholastic Aptitude Test given by the College Entrance oard. For further information see pages 34 and 37 in this catalog.

The Kemper Foundation Scholarship: One two-year scholarship of $750 p year is available from the James S. Kemper Foundation for a student wh intends to enter the field of insurance administration. The scholarship available to students entering from Junior College or to students at Pomon College at the beginning of the junior year. The foundation will assist th incumbent in obtaining vacation employment with a casualty or fire insuranc company, and on graduation will assist him in obtaining regular employmer at current salary rates with a casualty or fire insurance company, in the ex pectation that such employment will continue for at least two years. A furthe grant may be available for a year of post-graduate study.

Two-Year Scholarships: One or more, varying in amount from $300 to $90

One-Year Scholarships: Two awards with maximum stipend of $750 each

Alpha Gamma Sigma Scholarship: One award with maximum stipend o $750 given by Pomona College to a candidate who is recommended by Alph Gamma Sigma.

SPECIAL SCHOLARSHIPS

The Amélie Augustine McAlister Scholarships: The late Mrs. Amél McAlister Upshur of San Marino established at Pomona a fund of $100,00 the income from which provides scholarships for women. McAlister Schola ships are available to women in any class who need financial assistance t attend college.

The James Irvine Scholarships: A scholarship fund of $30,000 has bee established by the James Irvine Foundation, the income from which will b used to assist both men and women students at Pomona College in payin their tuition, board, lodging, and other expenses incidental to their educatio at the College. These scholarships are limited to students residing in the Stat of California, preference to be given to those in Orange County.

The Charles Harvey Rodi Memorial Scholarship: A scholarship of $1000 established by Mrs. Lucina Rodi Updegraff, is available annually to a ma studying toward a career in medicine. The award is made on the basis o ability and need, and may be available to the same student for more tha one year, all at the discretion of the Committee on Scholarships.

The A. L. Hobson Memorial Scholarship: A scholarship of $550 open to a man student from Ventura County, California, who needs financial assistanc to attend college. The recipient may be a member of any class at Pomona.

The Knights Templar Scholarship: An annual scholarship of $600 i provided by the Knights Templar Educational Foundation, Inc., of th Grand Commandery of California. It is awarded in recognition of thos qualities of leadership and of manhood or womanhood which make fo good citizenship. It is open to California residents of any Pomona class.

The Arthur Noble and Frances W. Noble Scholarship: A scholarship of 550, endowed by the late Mr. and Mrs. Arthur Noble, is available annually o a student in any class who needs financial assistance.

The Paul Mylrea Holden Scholarship: An annual scholarship of $500 estab-ished by Mrs. Susie Mylrea Holden in memory of her son, is open to students vho need financial help. It may be awarded to a member of any class at 'omona.

The Everett S. Olive Orchestral Scholarship: An annual scholarship of $250 s awarded to a qualified student on the basis of musical ability on an orches-ral instrument. It is endowed anonymously in tribute to Everett S. Olive, Emeritus Professor of Piano, whose interest has been an important factor in he development of the orchestra. It is normally given to a freshman. The cholarship is awarded on the joint recommendation of the Music Department nd the Committee on Scholarships. An audition is normally required.

The Walter H. Parsons and Hazen M. Parsons Memorial Scholarship: A cholarship of $200 given in memory of Walter H. Parsons, '04, and Hazen M. 'arsons, '09, is available annually to a man or woman in any class who needs inancial assistance to attend college.

The Olivia D. Baker Scholarship: The Olivia D. Baker Scholarship has been stablished in memory of Mrs. Olivia Dennison Baker. The scholarship is open o students of a minority race with preference given to negro candidates. The mount of the award will be determined by the student's need. It may cover is much as all college expenses for the full four years. It is probable that the cholarship will be offered on alternate years only, beginning in 1954-55. It s open either to men or women, to freshman or transfer students.

The Donald Houghton Bacon Scholarship: The parents of Donald H. Bacon, who died at the college in 1948, have established in his memory a 5000 scholarship fund, the income of which provides an annual award to a leserving student who prepared for college at the Tucson, Arizona, High chool, and who is recommended by the Superintendent of Schools in Tucson. If in any year no graduate of the Tucson High School is recom-nended for the award, it may be made to a senior student at Pomona Col-ege, who upon recommendation of the faculty is considered the outstanding nember of his class with respect to excellence in class work, athletic ability, nd general participation in campus activities.

SCHOLARSHIPS FOR MATRICULATED STUDENTS

The Scholarships listed below are available during 1954-55 for tudents who attended the college during 1953-54, and who have atisfied the matriculation requirements. They are not available to ntering students. These scholarships are awarded in open competi-

tion but normally require a grade point average of approximate 3.5. Half of the stipend is available in the first semester and half i the second semester of the year. The award for the second semest is normally made only if the recipient is in good standing and h maintained a scholastic record of B or better. The degree of financi need is taken into account in the awarding of all scholarships. Appl cations for these scholarships should reach the committee by May 1

The Frank G. Butler Scholarships: Five scholarships with maximum stipen of $750 each, awarded to sophomores, juniors, or seniors who have achiev scholastic distinction.

The Olivia Phelps Stokes Scholarships: Three scholarships with maximu stipend of $750 each.

College Scholarships: Sixteen scholarships from $200 to $900 each depen ing on financial need.

The Kappa Delta Honor Scholarship: An annual scholarship of $6 established in 1926 by alumni members of Kappa Delta Fraternity and admi istered under a special committee, is awarded at the beginning of his seni year to an outstanding all-around man, who shows qualities of charact intellect, leadership, sportsmanship, and proficiency in athletic pursuits. T recipient must have been in residence during all three lower years, and mu rank in the highest third of all the men in his class.

The Phi Beta Kappa Scholarship: A scholarship of $200 endowed by t Pomona Chapter of Phi Beta Kappa is awarded at the beginning of the seco semester to a senior who has been in residence for three years at Pomona a who is selected for the high quality of his scholarship and his promise future distinction. The award is open to both men and women.

The Nu Alpha Phi Memorial Scholarship: A scholarship of $650 endow by the members of Nu Alpha Phi Fraternity and awarded to a man at t beginning of his junior year. Selection is made by a special committee on t basis of outstanding character and real financial need, the latter partia determined by records of student employment during the school year. Giv in memory of the Fraternity's losses in World War II.

The Flora Sanborn Pitzer Memorial Scholarship: A scholarship of $5 from The Sanborn-Pitzer Foundation, established by Russell K. Pitzer of t class of 1900 in memory of his wife, is available to a woman student in t sophomore, junior, or senior class who has shown scholarship ability a who requires financial assistance to remain in college.

The Alice M. Sanborn Scholarship: A scholarship of $500 annual endowed by the late Alice M. Sanborn, is available to a man selected by t

Holmes Hall and College Gate

Marston Quadrangle and Mabel Shaw Bridges Auditorium

Modern Calculators and Adding Machines Are Available to Students of Economics

Pomona College Symphony Orchestra in Rehearsal

The Geology Laboratory Offers Students Excellent Facilities

'd Trips to Nearby Mountains and Desert Are an Important Part of Botany Courses

Creative Writing Is a Feature of the Work in English

Harwood Court—Residence Hall for Women

;cholarship Committee as a representative student at the college, not neces-arily of the highest scholarship standing, but who has high moral character. The candidate shall be selected at the beginning of his junior year, and shall eceive the scholarship for both his junior and senior years in college, pro-ided he shall remain, in the opinion of the Scholarship Committee, worthy f continued assistance.

The Malcolm Eversole Memorial Fund: A scholarship providing full uition for a man in the Junior Class to be nominated to the Scholarship Committee by the President of the College at the end of the nominee's second ear in Pomona College. The selection is based not on scholastic rank only ut on the possession of those personal qualities which indicate a high degree f promise in a student of outstanding character.

The Llewellyn Bixby Memorial Scholarship: A scholarship of $500 available nnually to a man or woman who has completed the freshman year in omona College and who shows proficiency and genuine interest in science. iven by Mrs. Llewellyn Bixby, '01, in memory of her husband.

Andrew Acker Sugg Memorial Scholarship: A scholarship of $575 avail-ble annually to a junior or senior man who shows promise of outstanding ork in the field of science. This fund has been established by Mrs. Andrew cker Sugg in memory of her husband.

The Andrew Fletcher Garst Memorial Scholarship: A sum of $250 will be warded annually at the beginning of the senior year to a deserving man or oman student who has benefitted most from his college experience of three ars and who has also contributed substantially to the life of the college. he selection of the candidate, whose major should preferably be in music, t, or science will be made by a committee of nine students and the Deans Men and Women. This award is given annually by friends in memory of ndrew Fletcher Garst, a member of the Class of 1952.

Bertha Lebus Scholarship: A scholarship of $550 endowed by Miss rtha Lebus is available annually to a matriculated student attending the llege. The recipient must be a person who shows a high degree of promise d who needs financial assistance.

The Associated Men Students Scholarships: The Associated Men Students Pomona College annually offer the two following awards: (1) A scholar-ip award of $100 to a man at the end of his Junior year who best exemplifies combination of scholarship with leadership and proficiency in athletics. To considered for the award a man must have maintained at least a B erage in all his college work, and must have been in residence at Pomona r at least one year. (2) A scholarship award of $100 to a man at the end his Junior year who best exemplifies a combination of scholarship with idership and attainment in extracurricular activities. To be considered for e award a man must have maintained at least a B average in all his llege work, and must have been in residence at Pomona for at least one year.

The Jessie Gibson Scholarship Fund: An Associated Women Students Fund for scholarship awards to members of minority groups who exhibit high qualities of character, leadership and scholarship. The awards will be administered by the A.W.S.

DEPARTMENTAL SCHOLARSHIPS

ART

The Hannah Tempest Scholarships: Two scholarships of $125 each are awarded annually to a man and a woman studying art, in accordance with conditions laid down by the donor, Mrs. Hannah Tempest Jenkins.

ASTRONOMY

The Shatto Memorial Scholarship: A scholarship of $250 is provided annually from the income of the Walter O. Shatto and Clara R. Shatto Memorial Funds for a qualified upperclassman or graduate student majoring in the Department of Astronomy, the candidate to be selected on the joint recommendation of the department and the Scholarship Committee.

GEOLOGY

The Richard E. Strehle Memorial Scholarship: A scholarship of $350 established in memory of Richard E. Strehle '41, who was killed in action in the Philippines in World War II, is awarded annually to a junior or senior man with the physical, mental, and moral qualities desirable in a field geologist. Choice is made near the end of the sophomore or junior year, on nomination by the Geology Department to the Scholarship Committee. The award may be withheld in any year, and additional awards may be made in years when extra income is available.

MATHEMATICS

The J. Carlyle Bryant Scholarship: Established by Mr. and Mrs. George W. Bryant in memory of their son, J. Carlyle Bryant, '45. Available to an outstanding, all-around man in any class at the college, who possesses qualities of character, scholarship, and athletic ability, and who is particularly interested in mathematics. The amount of the scholarship varies from $500 to $900, depending on the need of the recipient. If there should not be a properly qualified candidate in mathematics, the scholarship may be awarded to a student in one of the other physical sciences.

MILITARY

The advanced course of the Reserve Officers' Training Corps consists of Military Science III and IV. Students who have completed the basic course (Military Science I and II) or who are accorded equivalent credit because

of military or naval service are eligible for selection to the advanced course. Students selected for the advanced course enter into an agreement to complete the two year course and attend one summer training camp of six weeks duration. In consideration of this agreement, students receive from the United States Government cash allowances equivalent to a scholarship of about $320.00 a year. All necessary expenses in connection with camp, including transportation to and from the camp, food, housing, uniforms and medical attention are provided by the Government.

Advanced course ROTC students whose attainments in military science are outstanding may be designated by the Professor of Military Science and Tactics as "Distinguished Military Students." A number of distinguished military graduates of Senior ROTC Units may be selected upon application for direct Regular Army appointments.

The number of students admitted to the advanced course is controlled by the needs of the Army and the number recommended by the college authorities as being well-qualified to pursue the course. The selection of students for enrollment in the advanced course is based upon excellence in military training and suitability for appointment as second lieutenants in a branch of the U. S. Army Officers' Reserve Corps. Students who present evidence of above average records while in military or naval service, or who have distinguished themselves in the basic ROTC course of this or other schools will receive special consideration in the selection of those students to be enrolled in the advanced course.

MUSIC

The Kate Condit Memorial Scholarship: A scholarship of $100, endowed by the late Mr. and Mrs. A. P. Condit, is awarded annually to an outstanding student in the Department of Music.

The William J. Howard Memorial Scholarship Fund: Established by alumni and friends in memory of William J. Howard, '14. A scholarship of $145 is awarded annually to a student for lessons in applied music.

The Presser Foundation Scholarships: A fund of $250 is given to the college annually by the Presser Foundation of Philadelphia, for the assistance of music students. Scholarships from this fund are awarded by the Music Department. It is planned for students who are interested in music education or other advanced work in music.

PHYSICS

The Richard P. Edmunds Memorial Fund provides a scholarship of full tuition for an upper division man student (preferably one who has attended Pomona during the first two years) nominated to the Scholarship Committee by the Professor of Physics.

RELIGION

The Claremont Church Scholarship: A scholarship of $250 to be awarded each year to an upperclass student planning on life-time Christian service or to a senior about to enter seminary training. Choice is made in the spring by

the Scholarship Committee upon nomination from the Department of Religion acting in consultation with the minister and a member of the World Service Committee of the Claremont Church.

FELLOWSHIPS AND SCHOLARSHIPS FOR GRADUATE WORK

The following awards may be made for 1955-56 to graduating seniors if qualified applicants appear. Applications should be in the hands of the Committee on Scholarships by March 15, 1955.

The Henry Martyn Bracken Foundation and the *Emily Robinson Bracken Foundation* provide two or more fellowships for graduate work in the Claremont Graduate School. When in any year a graduating senior does not qualify for the award, the stipend may be given to an undergraduate student in Pomona College.

The C. E. and Bertha M. Harsh Memorial Scholarship Fund in the Claremont Graduate School provides income for scholarship aid to Pomona College graduates. Although the Board of Fellows is empowered to make grants of the income for the assistance of any capable and promising graduates of Pomona College attending the Claremont Graduate School, it is the preference of the donors that first consideration should be given to those who are doing advanced work in the Fine Arts.

The William Lincoln Honnold Foundation provides a fellowship with a stipend determined by the committee of award according to individual circumstances. The award is open normally only to graduating Seniors who have done four full years of work in Pomona College, who are rated in the upper half of the graduating class on the basis of their performance during both the junior and senior years, and who wish to continue their studies either in the Claremont Graduate School or elsewhere in America or abroad.

The prime purpose of the fellowship is to promote original and creative achievement in the candidate's chosen field of activity rather than merely to reward faithful classroom work. Preference will be given to candidates preparing for scholarly rather than professional work. The selection will be based not on scholarship only but on the possession of those personal qualities which indicate a high degree of promise in a student of outstanding character. The plans for graduate work are to be made in consultation between the candidate and the Committee on Scholarships, the committee having final authority.

University of Chicago Law School Scholarship: A scholarship in the School of Law at the University of Chicago will be awarded by the Pomona College Committee on Scholarships. Stipend is normally $720 and is renewable for two years if the student's record is satisfactory.

The Committee on Scholarships also nominates students of Pomona College who wish to apply for awards by other institutions and foundations.

CLAREMONT GRADUATE SCHOOL SCHOLARSHIPS

In addition to the awards for graduating seniors offered through Pomona College, scholarships for graduate work are available at the Claremont Graduate School.

Three Honnold Scholarships, two of $750 each, and one of $500, are awarded in the field of Oriental Affairs. General scholarships of $750 to $1,200 each are available for work in the field of the candidate's choice. A few graduate assistantships with half tuition in the Claremont Graduate School are available through Pomona College and Scripps College.

STUDENT AID

In addition to the scholarship awards, the college is able to make some grants-in-aid available to students doing satisfactory academic work who require financial assistance to continue at Pomona. To this end the income of certain endowed funds is supplemented by a budget appropriation. Normally applications for aid can be considered only from students who have completed one year in Pomona College, who are or intend to become candidates for a degree from Pomona College, who maintain a high standard of honor, who are economical in their habits, who are regular in their attendance upon college exercises, and who maintain at least C grade in their scholastic work. Recipients of grants-in-aid are expected to earn part of their college expenses by employment during vacations and term time.

Aid may be withdrawn at any time from students who prove not to have conformed to the conditions.

If a student who has received a grant-in-aid transfers to another institution of comparable cost before graduation the total sum granted him by Pomona College will become a loan, repayable according to the terms applicable to regular student loans.

It is customary to extend loans only instead of grants to students who are in the second semester of the senior year.

All applications for aid should be made to the chairman of the Committee on Scholarships and Student Aid, Sumner Hall, before May 15 for the following academic year. Emergency requests for the second semester should be submitted before January 15 for the second semester of the current academic year.

STUDENT AID FUNDS

The income from the following funds is available for student aid:

The Francis Bancroft Memorial Fund of $1500, given by Mrs. James T. Ford in memory of her father.

The L. H. Barrows Fund of $2500.

The H. G. Billings Memorial Fund of $1000.

The Florence G. Bixby Fund of $5000.

The Hagop Bogigian Fund of $31,402.

The Sherlock Bristol Memorial Fund of $400.

The Bessie A. Brown Memorial Fund of $800, given by Mrs. Fannie E. Brown.

The Henry Herbert Brown Memorial Fund of $1000 given by Mrs. Fannie E. Brown in memory of her son.

The Class of 1918 Fund, $961.

The Charles C. Cragin Memorial Fund of $5025, given by Mrs. Laura E. Cragin in memory of her husband, Rev. Charles C. Cragin.

The Agnes K. Crawford Memorial Fund of $1000, given by David R. Crawford and William Crawford in memory of their mother.

Ebell Club of Pomona Student Aid Fund of $1000. To help a woman student.

The Elwood Fund of $2600, given by Mary E. Elwood.

The Ford Fund of $2500, given by Rev. James T. Ford.

The Margaret Fowler Fund of $1000.

The Orren A. Gorton Fund of $5000.

The Emma K. Guild Fund of $44,887.

The Manette Hand Memorial Fund of $1500.

The Alfred James Harwood Memorial Fund of $8000.

The Charles E. Harwood Fund of $5000.

The Thomas F. Howard Memorial Fund of $3500, given by Dr. and Mrs. H. G. Brainerd in memory of Mrs. Brainerd's father.

The Mary Marvin Janes Fund of $679.

The Helen Day Jewell Fund of $1000.

The Henry L. Kuns Fund of $2000.

The Jean Loomis Fund of $2000.

The Howard J. Mills Memorial Fund of $3000.

The Ontario Congregational Church Fund of $186, given by the Ontario Congregational Church toward the endowment of a fund.

The Page Fund of $5000, given by Mrs. Loraine H. Page. (Three thousand dollars of this may at some time be used for other purposes.)

The Arthur Warren Phelps Memorial Fund of $2000, given by Mrs. C. S. Phelps and Mr. C. A. Phelps in memory of their son and brother.

The Lydia Phelps Memorial Fund of $4000.

The Pilgrim Church of Pomona Fund, $2002, given by the Pilgrim Congregational Church of Pomona.

The Pilgrim Church Women's Auxiliary Fund of $556, given by the Women's Auxiliary of the Pilgrim Congregational Church of Pomona.

The John D. Potter Memorial Fund of $2000, given by Mrs. S. T. Potter in memory of her husband.

The Anna H. Searing Fund of $1800.

The Clyde H. Shields Memorial Fund of $2000, given by R. P. Shields in memory of his oldest son.

The Lucia Glidden Strong Fund of $911.

The Sweet Memorial Fund of $2500, given by Harlan P. Sweet in memory of his wife.

The Maria T. Wardwell Fund of $1000.

The Clara B. Waterman Memorial Fund of $5000, given by Miss Rosa May Bennett.

The Henry S. West Fund of $2000.

SPECIAL FUNDS

The Crombie Allen Scholarship Fund of $1000, half of the income available annually to a graduate of Chaffey Union High School and half to a graduate of Chaffey College of Ontario, California.

The Martha E. Berry Memorial Fund of $6000, for foreign students.

The Mabel S. Bridges Memorial Fund of $3500, available for women.

The Alice Paul Harwood Scholarship Fund of $5000, open to graduates of Chaffey Union High School of Ontario.

The Stella M. King Scholarship and Loan Fund for Women, $10,000.

The Francis M. Price Fund of $1000, for children of missionaries.

The Willard E. Thompson Endowment Fund of $9,400, the income fro which provides funds for one or more departments of the college t employ students for clerical or other work. Only those students who nee financial assistance are eligible.

LOAN FUNDS

The college also administers loan funds by which it is possible t cooperate with the urgent need of students in making available t them amounts sufficient to cover tuition fees. Interest at the rat of 4% per annum begins on graduation or at the time of leavin the college. Loans from the following funds may be availabl applications for which should be addressed to the Committee o Scholarships and Student Aid.

General Loan Fund of $74,485.

The Caroline Phelps Stokes Fund of $25,000, endowed by the will Olivia Eggleston Phelps Stokes in memory of her sister, income from whic is available for loans.

The Ethan Allen Chase and Augusta Field Chase Fund of $6538, availabl for men.

The Ray Loan Fund of $1561, given by Mrs. E. F. Ray, to provide a mean of meeting situations of temporary need.

The David Clark Fund of $1162.

The Robert C. Denison Memorial Fund of $581.

The Lucy B. Jencks Memorial Fund of $419, established by the Claremon Chapter of the D.A.R., available for a senior girl designated by the Dean Women.

The Edwin C. Norton Memorial Loan Fund of $1575, available for unde graduate students, or for graduates of the college who wish to pursue advance work in other institutions.

The C. F. Baker Memorial Loan Fund of $216, available for undergraduat students, preferably juniors or seniors, in the departments of Botany an Zoology, who are approved by the heads of those departments.

The A. G. McKenna Loan Fund of $2940, available to graduating senio for advanced work at the institution of the student's choice.

The Anna Bruce Memorial Loan Fund for Women, of $530.

The Associated Women Students Loan Fund, administered by the Dea of Women at the request of the Associated Women Students, makes avai able for women students short term loans for personal emergencies. It is n

normally used for loans to meet college bills. Interest at the rate of 4% begins after a period of two years.

The Associated Men Students Loan Fund, established in 1931, is available for loans in small amounts to meet personal emergencies or short-term personal needs of Pomona men. It is not intended to be used to pay college bills. For a special need a loan may be issued on a long-term basis. The interest rate is 4%. The fund is administered by the Dean of Men at the request of the Associated Men Students.

STUDENT EMPLOYMENT

The College endeavors to find employment for students needing to earn part of their expenses. Many are thus helping themselves by various forms of labor such as baby sitting, janitor work, waiting on tables, general house work and gardening.

Applications for aid in securing employment should be addressed to the Director of Placement Service, Sumner Hall.

PRIZES AND AWARDS

GENERAL

The following prizes and awards are available for general accomplishments and for proficiency in the work of the several departments:

The Rena Gurley Archibald High Scholarship Prize: A prize of $50 to be awarded to that member of the graduating class taking the B.A. course and ranking highest in scholarship was established by the bequest of the late Reverend Andrew W. Archibald, D.D.

The Arvid Pierre Zetterberg Award: From a fund endowed by Mr. and Mrs. A. P. Zetterberg in memory of their son, Lt. Arvid Pierre Zetterberg, an annual award of $50 is made to the sophomore man who during his freshman year exemplifies the highest qualities of character, scholarship, and interest in manly sports. The award is made on nomination of the Scholarship Committee and is presented at the Opening Convocation in September.

ART

The Rembrandt Club Art Prizes: A first prize of $25, and a second prize of $10, are awarded by the Rembrandt Club for excellence in drawing and design, in work presented for the annual student exhibition.

The Rembrandt Club Art History Prize: A prize of $10 is given by the Rembrandt Club for the best paper presented in the course in History of Art.

ASTRONOMY

The Moncrieff Astronomy Prize: A prize given to the student in the first year course in Astronomy, taken regularly in class, whose interest in the study

and proficiency in the observatory work are indicated by the best notebook kept in accordance with the teacher's suggestion. A prize of $20 is given by Miss Flossie C. Moncrieff, '11.

BIOLOGY

The Vaile Prize: A prize of $15 to be awarded to an outstanding student in Botany or Zoology was endowed by the late Mr. Charles S. Vaile.

CHEMISTRY

The Stanley D. Wilson Prize: A prize of $50 endowed by Dr. Stanley D. Wilson is awarded annually to the student whose independent study in research shows greatest promise for creative work.

CHEMISTRY-GEOLOGY

The James A. Lyman Prize: A prize of $100 awarded at the beginning of the college year to a senior student majoring in chemistry or geology who, in the opinion of the chemistry-geology faculty, shows special promise of achievement in research or teaching, or both. Established in memory of Dr. James A. Lyman, Professor of Chemistry 1909-1926, by his son, Dr. George P. Lyman, '26.

EDUCATION

The Ada May Fitts Education Prize: A prize of $50 endowed by Mr. Charles T. Fitts in memory of his wife, Ada May Fitts, is awarded annually to a student for excellence in courses in the Department of Education and for unusual promise in the educational field.

ENGLISH

The John Dye Award: From a fund established by Mr. and Mrs. John Thomas Dye in memory of their son, John Thomas Dye, III, who was a Lieutenant in the Army Air Corps, is offered an annual award of $100 for the best piece of original writing to appear in a student publication. The award is announced at Commencement time.

The F. S. Jennings Memorial Prizes: Three prizes for men and three prizes for women of $50, $40, and $30, respectively, for excellence in English are available each semester to members of the Freshman class taking English I. In the award of these prizes attention is given to the interest shown by the student in improving the quality of his written and spoken English.

GOVERNMENT

The Edward M. Sait Prize: A prize of $5 for the purchase of a book relating to American or comparative government, or for a membership in the American Political Science Association, is awarded to the student doing the best work in the basic course in government.

The Russell M. Story Prize: A prize of $5 for the purchase of an appropriate book, or for a student membership in the American Society for Public Administration, is awarded to the student doing the best work in the course in public administration or in state and local government.

The George S. Burgess Prize: A prize of $5 for the purchase of an appropriate book, or for a subscription to a selected law review is awarded to the student doing the best work in the course in legal history or constitutional law.

INTERNATIONAL RELATIONS

The Cordell Hull Prize: An award of $50 is offered annually to the student who submits to the committee on International Relations the best essay on a problem relating to the United Nations. Subjects must be cleared with the secretary of the committee on or before April 1, and the essays, between 2500 and 3000 words in length, must be submitted in triplicate on or before May 1. In case no one essay is of outstanding merit, the committee reserves the right either to divide the honors or to make no award.

LATIN

The Mudge Latin Prizes: First and second prizes of $10 and $5, respectively, for excellence in Latin are endowed by friends of the College.

LIBRARY

The Eda May Haskell Library Prize: A prize of at least $15 in the form of a purchase order for books is offered for the best library submitted by a senior student, not necessarily for the largest or most expensive collection but for the most intelligently selected books in one or more fields of the student's interest.

MATHEMATICS

The Llewellyn Bixby Mathematics Prize: A prize of $10 for excellence in Analytic Geometry and Calculus; open to all students completing both Mathematics 1 or 52 and 65.

MUSIC

The Barbara Sanford Allen Prize: An annual competitive prize of $50 to be awarded to a student in the department of music, above freshman rank. This award is made possible by the husband and parents of a graduate of the Class of 1915 of Pomona College.

PHYSICS

The Tileston Physics Award: A prize of $50 to the junior student in physics whose record in course and department work is judged most promising.

The Tileston Survey Physics Prize: An award of $10 to the outstanding student in the Physics 1 course.

These prizes have been established by former students of Professor Roland W. Tileston and by members of his family.

PUBLIC SPEAKING

The Kinney Declamation Prizes: A prize declamation contest open to members of the Freshman class occurs early in the second semester. First, second, and third prizes of $25, $20, and $15, respectively, are endowed by Mrs. H. N. Kinney.

The Dole Debate Prizes: A prize debate for lower-division men is held near the close of the second semester. First and second prizes of $30 and $20, respectively, established by the late Mr. John H. Dole in memory of his brother, Mr. William B. Dole, are endowed by Mr. Arthur M. Dole, '96.

The Stella King Prizes: The opportunity to compete for prizes totaling $75 for speeches of their own composition is offered to upper-division students. The judges have the right to distribute the prize money among the contestants as they see fit, or to withhold all awards if they feel warranted in so doing. These prizes were endowed by the late S. H. Wheeler, in memory of Miss Stella King.

RELIGION

The Hager Prize: A prize of $10 for the best essay on a foreign missionary subject, open to all students, was endowed by the late Mr. and Mrs. C. R Hager.

General Information

LIBRARY

Pomona College shares with the other Associated Colleges the facilities of the Honnold Library, which houses approximately 222,000 volumes. Pomona's own collection within this library consists of 134,400 volumes, 179,000 bound and unbound United States and California government documents, and an uncatalogued pamphlet collection. Pomona subscribes to 700 periodicals and maintains bound files of approximately 550, many of which are complete. Especially valuable are the periodical holdings in the field of natural science. The library is a depository for U. S. Government Documents, California State Documents, and the publications of the Carnegie Institution.

The following special collections are a part of the general library: The Cook-Baker Biological Library and the Parish Botany Library in Crookshank Hall and the Rancho Santa Ana Botanic Garden building; the James A. Lyman Memorial Library of Chemistry and the Geology Library in Mason Hall; and the Mathematics and Physics Library in Pearsons Hall. Housed in the main building are the Mason California, the Wagner North Pacific, the McCormick Korean Libraries, and the Viola Minor Westergaard and Carnegie Art Collections.

In addition to the Pomona College Library, the Honnold Library also houses the libraries of the Claremont Graduate School, Claremont Men's College, and a part of the library of Scripps College. The main Scripps College Library is housed in the Ella Strong Denison Library. It contains in addition to its general collection the Macpherson Collection of books about women, and the Stephenson Memorial Collection of American History.

PUBLICATIONS

The stated publications of the College are issued as numbers of the *Pomona College Bulletin,* which is published monthly except July and August. These include: the *Annual Catalog,* the *Report of the President,* and the *News Letter* for Alumni.

LECTURE FOUNDATIONS

The Joseph H. Johnson Foundation, endowed by Miss Ellen B. Scripps, provides an annual income for the purpose of bringing distinguished lecturers to Pomona for a protracted stay and intimate participation in college life.

The Clark Foundation, established by Mr. Arthur O. Clark, makes it possible for the College to offer each year a lecture or course of lectures in the general field of religion.

The Henry D. Porter Foundation, named in honor of the late Rev. Henry D. Porter, for many years a missionary in China, provides for a lecture by some prominent worker in the field of Christian Missions.

PUBLIC ASSEMBLIES

A general assembly of the college is held each Thursday at 11 a.m. for the purpose of hearing visiting lecturers or members of the faculty discuss topics of interest to the whole institution. This assembly period is also used for student body and class meetings.

On five stated occasions throughout the year, including the opening of each semester, College Convocation is held. Full attendance of both faculty and students is expected at these exercises.

RELIGIOUS ACTIVITIES

The four Associated Colleges at Claremont unite in a College Church which holds its services each Sunday morning at eleven o'clock in Bridges Hall of Music. The Church is the coordinating force for religious activities among the colleges. Students participate in the services and there is a special student choir for the Church.

The College Chapel, which is altogether a service of worship, is held every Tuesday morning from 11:00 to 11:25 in Bridges Hall of Music. Both students and faculty participate in the program, at which attendance is voluntary.

Various expressions of religious interest and forms of religious activity exist on the Pomona campus: worship, study and discussion groups, campus and community programs of service, and contacts with intercollegiate enterprises. These interests and their sponsoring organizations are united in the Pomona College Christian Association as a central, campus-wide agency to encourage interest in religion and to develop religious activities.

The Association maintains relationships with the national Student Christian Movement and the World Student Christian Federation. Through one of its committees it joins with the College in sponsoring the weekly Chapel service. Under its or the College's auspices, or that of both, certain occasions of special religious emphasis are provided during the course of the academic year: seasonal celebrations, retreats and conferences, visitations to the campus by prominent religious leaders.

Opportunities for Sunday morning worship are also available in the Claremont churches which welcome the participation of students in their activities.

MUSIC

The College cooperates with Scripps College, Claremont Men's College, and the Claremont Graduate School in the presentation in Bridges Auditorium of the most distinguished masters in the field of music. Regularly included in the series is the Los Angeles Philharmonic Orchestra.

For the concerts thus afforded an annual ticket is furnished to every full-time student without extra charge.

Under the auspices of the Pomona College Department of Music, complimentary public recitals by individual students and members of the faculty and by groups are given frequently throughout the year. These are usually given on Monday evenings.

The College Symphony Orchestra, the Choir, the Men's and Women's Glee Clubs, the Band, and chamber music groups, afford opportunity for the study and public performance of the finest in ensemble music.

CAMPUS ORGANIZATIONS

The Associated Students. This association coordinates all student activities. Its officers are chosen by the student body from among their own number. All important questions are first considered by the Executive Council, a governing group composed of class presidents and chairmen of other organizations representing various activities of campus interest. These students are responsible not to the organizations which they represent on the Executive Council but to the Executive Council itself.

Associated Men Students and Associated Women Students. These organizations consider and promote the special interests of the men and women respectively.

Class Organizations. Each of the four college classes is organized for the purpose of promoting class social life.

Phi Beta Kappa. The Pomona Chapter of Phi Beta Kappa is the Gamma of California. Upperclassmen "who are of good moral character, who are candidates for the degree of Bachelor of Arts and who are distinguished for breadth of culture and excellence of scholarship" are eligible to membership in the Phi Beta Kappa Society.

Honor Societies. Ghosts; Mortar Board; Gamma Chapter of Alpha Kappa Delta, Sociology Fraternity; California Alpha Chapter of Kappa Mu Epsilon, National Honorary Mathematical Fraternity.

Departmental Organizations. El Circulo Español, Le Cercle Français, German Club, Caduceans, Economics Club.

Musical Organizations. Men's Glee Club; Women's Glee Club; Music Club, Symphony Orchestra, Chamber Music Groups, Band.

Dramatic and Literary Organizations. Drama Productions Committee, Masquers and Thespians, in Dramatics; and Orchesis, in Dancing; MSS, literary magazine.

Other Organizations. Camera Club; Ski Club; Women's Recreational Association.

KPCR, a local radio station owned and operated by the students covers the campuses of the Associated Colleges and provides radio experience for interested students.

Local Social Fraternities. Alpha Gamma Sigma; Kappa Delta Kappa Theta Epsilon; Nu Alpha Phi; Phi Delta; Sigma Tau. Each fraternity has a club room in one of the residence halls on the men's campus. Approximately one-third of the men students belong to the fraternities which pledge new members during the sophomore year. There are no sororities on the campus.

STUDENT PUBLICATIONS

The *Student Life* is published twice a week by the student body and is devoted to campus affairs.

The *Metate* is the yearbook published by the Associated Students

Eli P. Clark and Helen R. Walker Dormitories for Men

Frary Dining Hall with Orozco Fresco

The Edmunds Union Serves as a Campus Social Center

The Outdoor Swimming Pool Furnishes Opportunity for Year-round Recreation

The *Hand Book,* which contains material designed especially for new students, is issued at the beginning of the year by the Associated Students.

SUPERVISION OF CONDUCT

Pomona College assumes that most of the matters which affect the college are of concern to both faculty and students and believes that the experience and the judgment of both should be taken into account in the management of much of the college life. For this reason a large number of the policy forming committees of the college have both faculty and students as voting members. These committees now include the following: Admissions, Athletic Council, Personnel, Public Events, Religious Activities, Student Affairs and Vocational Counseling and Placement.

Pomona College assumes that its students, having voluntarily enrolled in the college, are in sympathy with its purposes and philosophy, and will abide by its accepted practices. This basic philosophy is that all members of the college community will govern their conduct by standards of good taste and ethical judgment. Any behaviour on or off the campus which may bring discredit to the individual or to the College may result in disciplinary action.

The use or possession of alcoholic liquors of any kind on the campus is prohibited by the college.

The faculty has placed the interpretation and execution of these policies in the hands of the Committee on Student Affairs which consists of the deans and certain faculty members appointed by the President and four student members appointed by the Executive Council of the Associated Students. Under this Committee as a policy-making body functions the College Life Council, composed of six faculty members appointed by the President and nine student members elected partly by the student body and partly by the Executive Council of the Associated Students.

At the present time the College Life Council has been delegated the responsibility for the administration of discipline, for dealing with inter-class rivalry, for supervision of fraternities, for regulations governing the use of automobiles, and for dealing with infringements of academic honesty and honor. It is probable that additional responsibilities will be assigned to the College Life Council from time to time.

The Judiciary Council of the Associated Women Students and th Judiciary Council of the Associated Men Students administer regu lations concerning conduct in the residence halls on their respectiv campuses, and, acting together as a joint body, carry out the policie of the College Life Council and act as a court or an advisory bod in matters of discipline, except in those which are judged by th deans to involve serious problems of personality adjustment.

Individual or collective student enterprises which use the colleg name and involve the absence of the participants from the co lege must receive the official sanction of the Committee on Stu dent Affairs.

AUTOMOBILES

Rules governing the use of automobiles are formulated and admi istered by the College Life Council. Students maintaining cars i Claremont are subject to the following regulations:

Registration and liability: Ownership of the car, together with i license number, must be registered with the office of the Dean Men or the Dean of Women at the opening of college or withi three days after the car is driven in Claremont. The student is r sponsible for having on the windshield of his automobile the P mona sticker issued at the time of registering the car. At the sam time, the College Life Council also requires that owner furni evidence of having liability insurance.

Student drivers must at all times, both on and off the campu exercise particular care and consideration for the safety of thei selves and others, and must acquaint themselves with the sta and local traffic laws and comply with their observance.

Failure to comply with the above regulations shall constitute a offense against the college, the penalty for which may inclu sequestration and storage of the car at the student's risk a expense for a period not beyond the end of the term in which t offense occurs.

Campus Fee: Students who use the campus streets, grounds a parking lots for overnight parking will be charged a fee of $4.0 a semester. Those who have their cars on campus during the c only will be charged $2.00 a semester. Reduced fees will be charg for a period of less than one month.

MEDICAL AND PHYSICAL CARE

Pomona College, in cooperation with Scripps, Claremont Men's College, and the Claremont Graduate School, engages the full-time ervices of two physicians to care for its students.

The medical advice of the college physicians is ordinarily avail- ble, free of charge, to all students, subject to certain conditions f hours and location of residence. Minor ailments are treated at he Baxter Medical Building or at the Infirmary, which is used for ases requiring nursing and certain types of hospital care. All sur- ical dressings and medicines are at the expense of the ill or injured s is also medical service in chronic or prolonged illness or in case of ccident, or an acute illness beyond ordinary first-aid emergency eatment. The college nurse visits the residence halls each morning n order to see those students reported ill.

The student is entitled to two days each semester at the College nfirmary without charge for room and meals. If illness requires ospitalization for additional days, the charge is $7.50 per ay. The College, however, reserves the right to discontinue this ndividual medical service at any time, without previous notice.

The College does not assume responsibility for the complete med- al care of all its students, but only in so far as its present facilities ill afford. Preventive medicine and campus health functions are ressed in the college medical program.

The College has completed arrangements by which its students ay purchase group health and accident insurance at special rates nd it advises students to avail themselves of this opportunity. etailed information about this insurance may be secured from e Dean of Students or from the college physicians.

Students are expected to conform to the medical regulations of e college.

PHYSICAL ATTENTION AND REQUIRED PHYSICAL EXAMINATIONS

ne physical care of students is a matter of special concern to the llege. The medical certificate required of all applicants prior to mission includes a certificate of recent successful small-pox vac- ation and a certificate of satisfactory tuberculin test, or an x-ray the chest, performed within the preceding six months. Any stu- nt, while in college, may be required to present each year a

follow-up certificate of examination for tuberculosis. Regular work in physical education is prescribed throughout the four years, and courses in physiology and hygiene are given. Supervision is given to athletics throughout the college year.

Required examinations after admission: Every student on entering college is given a physical examination under the direction of the College Physician. All new students entering in the fall semester are required to complete the examination during New Student Days or by November 1, and those entering in February are required to complete it by March 1. Failure to meet this requirement within the announced time limits will result in the temporary withdrawal of the student's privileges of registration and class attendance until the requirement is met.

Each academic year a student is in residence he is required to complete a chest x-ray examination while the mobile x-ray equipment is on campus or within fifteen days thereafter. Failure to meet this requirement will result in the suspension of privileges of registration and class attendance until notice has been received from the physician of the Associated Colleges that the requirement has been met.

ATHLETICS

Pomona College and Claremont Men's College unite to conduct a joint program of intercollegiate athletics, under one coaching staff, as a member of the Southern California Intercollegiate Athletic Conference. Our teams, known as the "Sagehens," compete in football, basketball, track and field, baseball, cross country, swimming, golf and tennis.

In addition to the program of intercollegiate sports the College maintains an extensive program of intra-mural sports open to all men students.

The direction and financial management of athletics rest with the Director of Athletics, who has associated with him as an advisory body the Athletic Council, composed of three members of the Pomona Faculty, one member from the Claremont Men's College Faculty, three student members from Pomona and two student members from Claremont. Under the general manager, there is a student manager for each sport.

The college endeavors to safeguard students in the use of its physical education facilities, athletic fields, and gymnasiums, and

to this end the department has established regulations concerning the use of such facilities, but it is clearly understood that students who use the same do so entirely at their own risk.

ASSOCIATED COLLEGES COUNSELING CENTER

The Associated Colleges maintain a Psychological Clinic under the direction of a Clinical Psychologist. The Director of the Clinic, Dr. Robert Keith, works in conjunction with the college physicians, Dr. Gilbert S. Coltrin and Dr. D. Scott Fox, and with Dr. Robert Hinshaw, a psychiatrist. The Clinic offers remedial instruction, vocational testing and consultation and counseling on personal and emotional problems. Most of the services are open to Pomona students without charge, including one consultation with the psychiatrist. The cost of any additional consultations with the psychiatrist must be met by the student, and a nominal fee may be charged for extensive counseling from the psychologist.

VOCATIONAL COUNSELING AND PLACEMENT

Through faculty advisers and the personnel services of the college, students receive assistance in their choice of a career. The college maintains a vocational placement service for the benefit of alumni and students. Many alumni cooperate with the Director of the Placement Service in assisting seniors and graduates to find employment.

This service aims to provide reliable occupational information concerning representative business organizations, government agencies, the professions, and other opportunities for employment.

Each year conferences on careers for men and women are held on campus under the sponsorship of the academic departments and the faculty and student committees on vocational services.

A Vocational Information Center is maintained in the Honnold library with information on vocations in this country and opportunities for placement abroad and for foreign study. Information on scholarships and fellowships for graduate study is made available to interested students by the Scholarship Committee, the Vocational Information Center at the Honnold Library, and department offices.

Students are invited to discuss their vocational interests and the results of vocational test scores with the Dean of Men, Dean of Women or with other faculty advisers. Deans and advisers are available throughout the year to discuss with students their choice of academic fields of concentration as well as their vocational and personal goals.

SUMMER SESSION

The Claremont Summer Session is sponsored jointly by the Claremont Graduate School, Pomona College, Scripps College, and Claremont Men's College. A Bulletin describing summer work is issued annually. Requests for information should be addressed to the Director of the Summer Session, Harper Hall, Claremont, California.

The Curriculum

THE PURPOSE OF Pomona College is to prepare students for a society which expects of them leadership in diverse roles and offices, humble or great. The college endeavors to help its students toward a life in which professional achievement is accompanied by personal happiness, cultural balance, and social responsibility. Its program, therefore, includes courses intended for general education as well as courses designed for specialized study and preprofessional training.

The immediate objective of general education, as expressed in the course requirements of the College, is to help the student in his development of:

1. Ability to use the English language effectively, in reading, in writing, and in speech.
2. Knowledge of scientific thought and method.
3. Understanding of the historical development of our civilization.
4. Understanding of human society, its problems and its institutions.
5. Understanding of the nature and operation of the American economic and political institutions.
6. Appreciation of literature and the fine arts.
7. Appreciation of ethical and spiritual values.

With these purposes in mind, the College expects that certain courses be taken in the Freshman and Sophomore years.

To secure the benefits of intellectual discipline derived from concentrated study, and at the same time, in many instances, to prepare for professional training after graduation, every student upon entering the Sophomore year is required to select a field of concentration in which he will complete not less than twenty-four units of upper-division work during his Junior and Senior years. The field of concentration may be represented by one department or may extend beyond departmental limits to include closely related subjects. For students of outstanding ability and well-defined interests, the field of concentration may be developed into a pro-

gram of honors study. These requirements and programs of study are described in detail in the following pages.

FACULTY ADVISERS

Each new student is assigned to a faculty adviser. Advisers to Freshmen are general advisers assigned to assist Freshmen in the selection of courses and general adjustment to the academic life of the College. At the end of the student's first year and in the light of his academic interest an adviser is assigned with whom the student will work during the remainder of his college course. If at any time a change is deemed wise it is made through the Dean of Students.

SUMMARY OF REQUIREMENTS FOR THE DEGREE

Pomona College awards only the bachelor of arts degree. Commencement honors are awarded (1) on the basis of the over-all average of the student's work, and of the comprehensive examination, and (2) on the basis of the completion of a program in "Honors Study." These honors are further described on page 93.

Units: One hundred and twenty-six units (semester-hours) of work are required for graduation. A "unit" consists of one recitation or lecture period or one laboratory period a week for one semester. A recitation or lecture period covers fifty minutes; a laboratory period covers, in general, the time of three such periods. In order to complete the course in eight semesters one must take each semester an average of fifteen units of work exclusive of physical education activities.

Grade Points: In order to graduate, a student must not only earn a certain number of units, but also attain an average of at least C grade in all units for which he has registered in the Associated Colleges. An explanation of the grading system will be found on page 74.

Residence: A minimum of four semesters in full-time attendance is normally required for graduation. All students are required to complete the final two semesters in full time attendance unless individual exceptions are made by the Classification Committee.

Lower Division Requirements: All students must satisfy the requirements for distribution in the Lower Division as explained on page 77. These requirements should normally be met in the Freshman and Sophomore years, but their completion may be postponed to the Junior year. Postponement to the Senior year requires the permission of the Classification Committee.

Upper Division Requirements: In the Junior and Senior years all students must undertake a program of concentration leading to a comprehensive examination or its equivalent. (See page 78.)

Physical Education Activities: Physical Education Activities must be included in the registration of each student every semester, in accordance with the student's classification, until a maximum of six units has been completed. Freshmen and Sophomores register for two activities each semester, and Juniors and Seniors one activity. Exemption from this requirement is possible only by permission of the Classification Committee on the recommendation of the College Physician and/or the Department of Physical Education. Transfer students who met the Physical Education requirement of the institution from which they transferred need take only the amount required for their classification.

American History and Institutions: To be eligible for graduation all students are required by the laws of the State of California to pass examinations in American history and in American and California institutions, including the provisions and principles of the United States Constitution and the principles of California state and local government as established under the Constitution of this State. While courses are helpful in preparing for the examinations, it is not possible to satisfy the requirements by the passing of any Pomona College course or courses. Examinations to satisfy these requirements will be given semi-annually in September and in the spring on dates which will be announced well in advance. Each candidate will be examined once without fee, but if he fails to pass the first time, re-examination will be given only upon presentation of a receipt from the Business Office for the payment of the usual $2.00 fee for special examinations. Candidates who have failed once, however, must take re-examinations at the times scheduled for the regular examinations. These examinations will be objective in character. This requirement must be met not later than the beginning of the junior year, and preferably as early as possible in the student's undergraduate career. Any student who has not satisfied these requirements by the beginning of his junior year will not be considered to be in good standing until they have been fulfilled. Reading lists for those preparing for the examinations are obtainable from the departments of History and Government. Members of those departments will offer a series of public lectures each spring which will be mature interpretations of the subject, but they will not in themselves provide all the factual information necessary to pass the examinations. Students failing an examination are advised to take a course in that field before attempting it again.

Foreign Languages: Although the College does not specify a knowledge of foreign language as a requirement for the degree, several departments do include this requirement in their programs of concentration. The student should ascertain the language requirement of whatever program of concentration he is planning to undertake, and, if he is not already prepared to meet it, should include the study of the required language in his Freshman and Sophomore years.

Graduation Fee: Every student expecting to graduate at the end of any given semester must file an application for graduation at the Registrar's Office not later than the beginning of his final semester and must include the grad-

uation fee ($10.00) with the payment of his other fees at the time of such registration. Failure to comply with these two requirements will automatically exclude a student from graduation that semester.

ACADEMIC REGULATIONS AND PROCEDURE

Grades and Grade Points: Each Candidate for graduation must earn an average of at least C (i.e. twice as many grade points as units) in courses for which he has registered in the Associated Colleges.

A (excellent) = 4 grade points per unit.
B (very good) = 3 grade points per unit.
C (average) = 2 grade points per unit.
D (passing) = 1 grade point per unit.
F (failure) = 0 grade points per unit. May be made up to a D.
FF (failure) = 0 grade points per unit. May not be made up except by repeating course.
I (incomplete due to illness)
W (withdrawn with permission)

All F, FF, and I grades reported by instructors must be accompanied by a specific statement in writing of the reason for the grade. In case of an F or I grade, the statement must include a detailed explanation of how the grade can be made up. A copy of this statement is given to the student. All conditions for removing I and F grades must be met within seven weeks of the beginning of classes of the following semester, except that, in certain year courses, the deficiency in the first semester may be removed by successful completion of the work of the second semester, if the instructor recommends. An F grade cannot be raised above a D. I and F grades not satisfactorily made up within this time limit automatically become FF.

The I mark is given where illness on the part of a student justifies the granting of additional time for the completion of work. It may be changed to whatever grade the student earns. Instructors wishing to give an I grade for a justifiable cause other than illness must first receive permission to do so from the Classification Committee.

A FF grade can be made up only by repeating the course. Where the FF or permanent F grade is incurred in a Physical Education activity, the same course must be repeated when next offered. A student may not continue in a year course other than Physical Education in which he has received a FF the first semester. The making up of work which has received the permanent F or FF grade does not expunge the grade from the record. Although credits and grade points are allowed for the repeated work all units attempted and grade points earned are counted in computing the student's average.

The mark W is used where a student has withdrawn from a course in accordance with the provisions outlined under Changes in Registration.

Amount of work: The College regulates the amount of work a student may carry as follows:

The normal registration is 15 units of academic work plus Physical Edu-

ion activities and/or Military Drill. In addition a student may elect for credit wo of the following: Band, Choir, Orchestra, or Play Production.

To register for 17 units of academic work a student must have earned 32 nore grade points than the total number of units for which he registered he previous semester; to register for 18 units, 40 more grade points.

To register for less than 12 units of academic work requires the permission f the Classification Committee.

Auditing of Courses: Regularly enrolled students who are paying full uition may, in addition to the courses they are carrying for credit, audit her courses. They should enroll for them through the Registrar's Office. ll others must pay the regular auditor's fee, see page 40.

Quality of work: A student is expected to secure each semester twice as any grade points as the total number of units of registration.

Near the end of the first five weeks and near the middle of each semester culty are required to report all students doing unsatisfactory work for the riod preceding the date of the report. In addition to these general reports, structors may make reports at any time concerning individual students ho are not in good scholastic standing. Advisers and deans receive such ports and take such steps as are advisable in each individual case.

At the end of each semester a complete report is made on every student. his report becomes a part of the student's record and indicates his standing the courses for which he has been registered.

The college may at any time require the withdrawal of a student if the uality of his work seems to warrant such action. Decision in every such se is reached by the joint action of the Student Affairs and Classification mmittees in consultation with the student's adviser.

Completion of work: To be counted as work completed in the course, papers, reports, drawings, and other assigned exercises must be turned in instructors before the final examination.

Reading Period: A reading period of three weeks is provided at the end each semester for certain upper division courses. Participation is at the tion of the instructor. An instructor who desires to have a class participate the program should announce that fact to the class at the beginning of the nester. In such classes all regular course assignments, term papers, etc., are e prior to the beginning of the reading period, unless specifically assigned be done during that time.

Dismissal from Courses: A student who proves unable or unwilling to ry a course satisfactorily may be dropped from it by the Classification mmittee upon the recommendation of the instructor at any time later than weeks from the beginning of the course. The student's class card, with a de of either FF or W for the course and an annotation reporting the fact his having been dropped, shall be turned in to the Registrar's Office.

Class Attendance: Students are expected to maintain regular attendance ll class appointments in the courses for which they are registered.

While there is no general college requirement, each instructor has the right

to establish such specific regulations regarding attendance as may seem be suited to his particular department.

Final Examinations: Seniors may not take final examinations in courses i the semester in which they take their comprehensive examinations. Fin examinations are required of all other students in all subjects save as exceptio are made by action of the Courses of Study Committee.

The schedule of final examinations is prepared by the Courses of Stud Committee. No changes of examination dates may be made without th consent of this Committee. Examinations for individual students may b given at other than scheduled times only by consent of the Classificatio Committee and on the presentation to the instructor of a Business Offi receipt for a fee of two dollars ($2.00), unless this fee is remitted by th Committee.

Field Trips: Field trips are looked upon by the faculty as a legitimate pa of certain courses. Permission for such trips is secured by instructors from th Courses of Study Committee at the opening of each semester. Instructo certify to the Registrar's Office the names of students participating in the trips.

Pre-Registration and Registration: On appointed days shortly after th publication of the catalog in the spring and before Christmas vacation December all students must pre-register by filling out schedules listing the choice of subjects for the following semester. The fee for any change in th pre-registration is three dollars.

New students pre-register and register on announced days at the openi of each semester.

Registration is completed for all students by the payment of tuition a fees on appointed days at the beginning of each semester.

The fee for late pre-registration or late registration is $2.00 for the fi or second day following the appointed days, and $1.00 additional for eve day thereafter to a maximum of $10.00.

Students are not allowed credit for courses for which they are not forma registered.

Students may not enter courses later than two weeks from the beginning class work.

Changes in Registration: Upon application to the Registrar's Office a with the approval of his adviser, a student wishing to modify his schedule studies by addition or substitution of courses may do so within two weeks the beginning of class work. All students except those registering for the fi time are required to pay a change fee of three dollars. No change of registrati is official unless the student has complied with the procedure established by t Registrar's Office.

Students withdrawing from laboratory fee courses within three weeks the beginning of classes will be refunded the full fee. One-half the full will be refunded to those withdrawing in the following three-week peri

ıt after six weeks from the beginning of classes no laboratory fees will : refunded.

A student may withdraw from a course within six weeks following the :ginning of class work by following the procedure prescribed by the egistrar's Office. Thereafter, the dropping of a course by a student shall ıtail for him a grade of FF for the course, except as circumstances may, the judgment of the instructor and the Classification Committee, warrant grade of W.

Matriculation: Matriculation implies the proven ability to carry college ork. To this end the standing of all students is provisional until after they ıve been in full time attendance for one semester. At that time those new ıdents are matriculated who have shown themselves in accord with the spirit the College, have carried a minimum of 12 academic units, and have made least an over-all average of C in all work attempted during their term of ıidence. For those matriculating at the end of their first semester a public atriculation ceremony is held early in the second semester.

Students failing to matriculate at the end of their first semester of residence ıy be matriculated at the end of any subsequent semester provided they ve met all the above requirements including an over-all average of C on work attempted during their whole period of residence.

Students are not candidates for a degree until they have matriculated.

The Faculty Regulation on English: In the evaluation of all academic ercises the quality of English used by the student will be weighed together th the soundness and completeness of his thinking. Faculty members are pected to report to the Faculty Committee on English all students whose : of English is unsatisfactory. On the recommendation of this Committee, student whose English is persistently unacceptable may be required to thdraw from the College at the end of any semester by the joint action of : Student Affairs and Classification Committees. Habitual and flagrant sspelling is considered a deficiency in English to which this regulation plies.

REQUIREMENTS FOR DISTRIBUTION IN THE LOWER DIVISION

All students must satisfy, by the end of the Junior year, the following uirements for distribution in the Lower Division. Normally the distri- ion requirements shall be met only by the Pomona College courses listed ow unless exception is granted by the Classification Committee. Students m other institutions who plan to transfer to advanced standing in Pomona lege are advised to scrutinize their programs carefully to be sure they e taken the required work and to consult the Registrar concerning any stions as to the acceptance of credit.

. *English* 1a, 1b. An Introductory Course. A few students who make excep- ially high scores on the College Board Examination and also on an exercise composition set by the Department of English are exempted from *English* *and are enrolled in English* 1b *in the First Semester.* If they wish, such

students may take the *year* course, which is a study of composition and lite ature on the college level. Remedial work in English below the college lev is under the supervision of a special faculty committee.

2. *A year course in a biological science.* Biology 1, Botany 12 and 1 Zoology 1 or 11.

3. *A year course in a physical science:* Astronomy 1 or 61; Chemistry 1; G ology 1 and 2; Physics 1; Physics 51.

Note: A student may satisfy the requirement in either Group 2 or Group but not in both, by offering for admission a recommended unit of high scho work in one of the sciences listed in the Group from which he wishes be excused.

4 and 5. *Two year-courses in the social sciences:* History 1a-1b; Economi 51 and 52; Government 51 and 52; Sociology 51 and 52; Education 5 Economics 51 and Government 52. Normally History 1a-1b will be tak as one of the two courses.

Note: Sociology 51 and 52 constitute the integrated year course in sociolog but 51 and any *two* higher-numbered courses also meet the requirement. The need not all be taken in the same year.

6. *A year course in literature, art or music:* This requirement may l met by a course primarily concerned with the appreciation of literatu rather than with the mastery of language, or by a year course in art music. Acceptable courses are:

a. English 50 or six units from English 50a, 56, 57, and 58.

b. In the classics and in modern European languages, any course, the original or translation, numbered above 50, except courses composition and conversation.

c. Any year course of not less than four units in art or music.

7. *A year course in philosophy or religion:* Philosophy 57, 110 and 11 Religion 1, 2; 65.

REQUIREMENTS FOR CONCENTRATION IN THE UPPER DIVISION

All students must make a tentative choice of a major field of concentrati during the Freshman year and a definite choice by the end of the Sophomo year. During their first two years students will be expected to complete t basic courses required by the department or departments of their choice.

Each student's program of concentration shall culminate in a final writt comprehensive examination over the entire field in which he has concentrate The student must pass this examination in order to qualify for graduation. a few departments research projects take the place of the written examinatio

No student is permitted to take both the Comprehensive Examination a final examinations in courses the same semester.

The Comprehensive Examinations must be taken at the officially schedul

mes. Students who have failed Comprehensive Examinations may request ermission to retake them at the opening of the college year and at the end each semester. Such applications must be in the hands of the department ncerned by September 1, December 1, or April 1. A fee of $10 will be arged for a re-examination which is taken at other than the times set for regular comprehensive examination. All students who intend to take the gularly scheduled comprehensive examinations must file an application ith the Registrar not later than the beginning of the semester in which the amination is to be taken.

In the event that an undergraduate does not take all or part of his Compre-nsive Examination due to illness, he will receive an "I" for the part or parts the examination not taken.

It is the responsibility of the undergraduate who does not take a Compre-nsive Examination due to illness to inform the department giving the amination at the earliest possible time.

The "I" given for the part or parts of the examination not taken may be moved in the usual manner. The summer vacation period may be used for ake-up examinations provided arrangements can be made which are satis-tory to the department concerned and to the undergraduate taking the amination. Only in the most exceptional circumstances will make-up mprehensive Examinations be given during final examination periods. ake-up Comprehensive Examinations may not be given during such periods cept by specific permission of the Classification Committee.

A program of concentration leading to the comprehensive examination must lude not less than twenty-four hours and not more than thirty-six hours work in courses numbered over 100 in the chosen field. These limits apply that part of the student's program on which the comprehensive exami-ion will be set.

For the entire four years of college, not more than a total of fifty-two units any one department (in Music not more than a total of sixty units) may counted toward graduation.

A few concentrations have been arranged so as to permit a combination courses in various departments. In many cases concentration will also preparation for professional study or other specialized training after duation.

For concentration in some fields a reading knowledge of at least one dern foreign language is necessary; in many fields a command of two is irable. It is to the advantage of the student to acquire as much as possible this reading knowledge before entering college, and whatever additional ning is needed should be taken early in his college course.

The requirements for concentration in any department will be found before list of courses offered by the department. The several programs of con-tration in fields consisting of related courses in more than one department ow immediately.

Concentration In Special Fields

In addition to concentration programs in the various departments, the following programs in special fields are available:

INTERNATIONAL RELATIONS

The concentration in International Relations consists of certain required courses in History, Economics and Government, plus a selection from recommended offerings in other fields. It is under the jurisdiction of an interdepartmental committee (see page 22) representing these departments and, in addition, the fields of Sociology, Oriental affairs and Latin American affairs.

Of the thirty upper-division units which comprise the minimum concentration, twenty-one are required and nine elective. Six elective units must be taken from one area of specialization—European (including Russia), Far Eastern, or Latin American—depending upon the student's special interest. In addition, the concentrator must pass an examination demonstrating competence in a modern foreign language by the beginning of the senior year.

Prerequisites: History 1 and 55, Government 51-52, and Economics 51-52.

THE CONCENTRATION

Required courses:

Government 109,	Fundamentals of International Relations (to be taken during the sophomore year if possible)
History 113b,	Europe since 1920
Economics 154,	International Trade (prerequisite: Econ. 104, Economic Theory and Business Policy) *or*
Economics 155,	International Finance (prerequisite: Econ. 103, Money and Banking)
Government 125,	Modern Democracies
Government 126,	Modern Totalitarianism: U. S. S. R.
Government 165,	Foreign Relations of the United States
Government 169,	Contemporary International Problems (senior seminar).

Area courses:

European area: History 113a, 114, 117b, 160; Far Eastern area: Oriental Affairs 103a, b; 105, 124, 140, 160; Latin American area: History 123a, b; 128a, b.

Elective courses:

Sociology 110, 111, 153; Art 113b; Comparative Literature 181; Economics 195; French 120a, b; German 158a, b; History 127a, b; 130; Philosophy 132.

Available at Scripps College: I-120, I-152b, I-155, III-106, IV-140a, b.

Available at Claremont Men's College: History and Problems of Imperialism 110, Foreign Trade 160, International Political and Economic Relations 160.

Junior transfers: Students transferring to Pomona at the beginning of the junior year are eligible to concentrate in International Relations provided the prerequisites are met before entrance or can be satisfied during the junior year.

FOREIGN AREA AND LANGUAGE CONCENTRATION

EAST ASIA AREA CONCENTRATION

Pomona College has one of the best oriental libraries on the Pacific Coast, affording excellent resources for students concentrating on East Asia.

Requirements: A student concentrating in Oriental Affairs must take Oriental Affairs 51a and 51b. Twenty-four hours of upper division work are required. This must include one year's work in language.

Recommendations: It is advisable for a student concentrating in this field to have at least the following introductory courses in certain related fields: Government 51 and 52; History 1 and 2; Economics 51 and 52; Sociology 51. These should normally be taken in the freshman and sophomore years. Some students will wish to add, in their junior and senior years, Economics 154 and 155; Government 109; History 114; Sociology 110.

It is also highly desirable for students studying China intensively to have some work in the Chinese language, three years of which (Oriental Affairs 52, 151, 181) are offered.

Because several of the above required courses are offered only in alternate years, students concentrating in this area should plan their course programs well ahead.

LATIN AMERICAN AFFAIRS

CONCENTRATION in Latin American Affairs is possible in connection with the concentration in International Relations, see page 80. Concentration on Latin America is designed for students looking toward teaching Latin American history, economics, etc.; toward government service in Latin America; toward a business career in Latin America. Students interested in this field should consult with Mr. Herring.

MODERN SOCIAL INSTITUTIONS

FOR STUDENTS whose needs and interests would be better served by a program of study somewhat broader than in a normal major, Pomona offers a concentration in Modern Social Institutions drawing upon the courses of several departments. The program is especially suitable for pre-divinity students and those planning to become social studies teachers in secondary schools.

Administered by the Department of Government, the concentration is organized around five core courses and, in addition, an intra-concentration major and minor selected from three areas: American social institutions, comparative social institutions, and modern social thought.

The five core courses are History 55ab (History of the United States), Psychology 154 (Social Psychology), Sociology 136 (Social Organization) or Sociology 152 (Social Control), Religion 142 (Christianity and Modern Culture) and Government 180 (Social Institutions and Social Theory). The last named course, a seminar is normally taken in the senior year and culminates in a paper which is counted as a part of the comprehensive examination.

From the following courses concentrators must take at least twelve units in one area and six in another (normally the senior paper is written in the area of major emphasis): I. *American Social Institutions.* Economics 110 (Industrial Competition and Business Policy) Economics 111 (Labor Economics), Education 105 (History of Education—the United States), Government 157 (Parties and Pressure Groups), Religion 159 (Religion in Early American Culture), Sociology 112 (The American Community). II

Comparative Social Institutions. Economics 195 (Comparative Economic Systems), Education 104 (History of Education—Foreign and Comparative), Government 125 (Modern Democracies), Government 126 (Modern Totalitarianism: USSR), Religion 160 (Catholicism and Protestantism), Sociology 102 (Cultural Anthropology). III. *Modern Social Thought.* Education 151 (Philosophy of Education), Government 245 (American Political Thought), Government 183 (Modern Political Theory), History 117ab (Intellectual History of Europe), Sociology 153 (Theories of Social Reform).

Potential concentrators are reminded that while this program embraces only thirty-three upper division units among five or more departments the prerequisites to upper division courses in Economics, Government, Psychology and Sociology, in addition to the normal lower division requirements, produces a schedule which makes careful planning essential and early entry into the program desirable.

These requirements apply to the Class of 1956 and subsequent classes. Requirements for the Class of 1955 will be found in the 1953-4 catalog.

THE WASHINGTON SEMESTER

POMONA IS ONE among a number of colleges which have been invited by The American University to participate in its Washington Semester program whereby a limited group of undergraduate students are afforded an opportunity for special study of the governmental process in the national capital. The College has been allotted a quota of four students annually, the choice among applicants being made by a Faculty Selection Committee. Preference is given to juniors. Under a cooperative agreement tuition is paid in the regular manner to Pomona College while charges for board and room are paid in Washington, D. C. Candidates selected defray their own costs for travel and other expenses. Students interested in the program are invited to consult with the chairman of the Department of Government who serves as local representative.

Pre-Professional Programs

THE academic program of Pomona College furnishes the opportunity for pre-professional training in many fields. Indicated below are suggested programs which might be combined with various concentrations.

PRE-AGRICULTURE, PRE-FORESTRY, AND PRE-LANDSCAPE ARCHITECTURE

A STRONG PROGRAM IN THE NATURAL SCIENCES is the best preparation for agriculture or forestry and, coupled with an equivalent program in art, for landscape architecture. The courses necessary for programs in these fields are available at Pomona College. A complete list of recommended courses in all three may be obtained from the Department of Botany, and the suggested course in landscape architecture from the Department of Art.

Ordinarily preparation in agriculture, forestry, or landscape architecture involves a full four-year course of background material together with a broad general education. This is followed by a year in a graduate or technical school bridging the gap between pure science or art and their application. Such a program prepares for leadership in the field, rather than a minor position involving only a special application of a segment of the subject. It is designed to develop adaptability to many situations rather than specific preparation for a few.

PRE-BUSINESS COURSE

A STUDY of business executives reveals that an increasing number have had a social science background, particularly in economics. Modern management needs to know much besides the particular facts and skills associated with an individual business. A thorough understanding of the economic system and business-government relations, along with the power to communicate accurately and convincingly, is more and more becoming a prerequisite to business success.

Students at Pomona College, planning a career in business, have the opportunity to develop to the fullest their own individual capacities while gaining a mature understanding of economic institutions and the broader relations within which a business firm operates.

Training in the basic tools of analysis required by professional leaders is emphasized. These include the ability to think clearly, to state one's position precisely and persuasively, and to know where to find wanted information.

A rich offering of courses is available, including accounting, statistics, money and banking, labor economics, national income, economic theory and business policy, trade regulation, business law, taxation, international trade, and international finance. During the senior year, the student is urged to take honors work or supervised study in the area of his own special interest under the direction of a staff member. The program is ideal for the student who plans to attend a graduate school of business, to pursue an advanced degree in economics, or to enter one of the special business training programs for college graduates.

This program at Pomona College is now within reach of any student who has the requisite ability, character, and initiative. In addition to the Baker, Alumni and other scholarships, three four-year Union Carbide fellowships covering full tuition, fees, and books are now available annually to incoming freshmen who plan on business as a career. In addition, the Morris B. Pendleton Foundation insures that any deserving economics major will not be prevented from completing the program because of need. See "Scholarships and Student Aid."

PRE-ENGINEERING PROGRAM

AS THE ENGINEERING profession has assumed a more important role in modern society, there has been a growing demand for professional engineers who have, in addition to technical ability and training, a broad understanding of the economic, social, and political forces which are molding modern civilization. Recognition of these requirements for the modern engineer may be found in liberalized curricula of leading engineering schools.

Students at Pomona College who plan to enter a professional engineering school have an opportunity to obtain an excellent foundation in mathematics and physical science in addition to a well-balanced liberal training. While no professional engineering courses are offered at Pomona, and no engineering degree is granted at Pomona, it is possible in some cases for students to enter a graduate school of engineering after being graduated from Pomona with a concentration program in physical science. Those

who plan to continue with engineering training after leaving Pomona should consult with members of the staff in physical science who are acquainted with engineering school requirements.

COMBINED PLANS WITH MASSACHUSETTS INSTITUTE OF TECHNOLOGY AND CALIFORNIA INSTITUTE OF TECHNOLOGY

Along with several other liberal arts colleges, Pomona has an arrangement with the Massachusetts Institute of Technology and with the California Institute of Technology whereby qualified students may receive the Bachelor of Arts degree from Pomona and a Bachelor of Science degree from M.I.T. or C.I.T. after a combined five-year program, of which the first three years are taken at Pomona. Without the combined plan at least six years would usually be required to complete the work for both degrees. Students under the combined plan will be accepted at the Massachusetts Institute of Technology or the California Institute of Technology without examination if recommended by Pomona.

A pre-engineering concentration may be completed by students who transfer under one of the Combined Plans after three years at Pomona College and by students who complete four years at Pomona College.

In satisfying the Lower Division Distribution Requirement of Pomona College, the humanities requirements of the particular institute should be carefully considered in consultation with the adviser. In addition, the following Lower Division courses should normally be completed.

Physics 51
Mathematics 1 or 52
Mathematics 65
Engineering Drawing 7ab
Engineering Drawing 40ab
Chemistry 1 or 59

Satisfaction of the Pomona College concentration requirement in pre-engineering for those students who transfer at the end of the junior year shall include at least 24 Upper Division units selected from the following courses in consultation with the Faculty adviser. Starred courses shall normally be included.

Mathematics 151a*, 151b
Mathematics 102*
Physics 110*
Physics 113a*, 113b
Physics 141a*, 141b
Physics 142a*, 142b
Physics 153
Physics 154
Physics 155

Students planning combined programs in specialized fields such as chemical engineering, architecture, food technology, and city planning will approximate the above requirements on a unit basis but with substitution of more suitable courses where deemed advisable after consultation with the Faculty adviser.

Those students concentrating in pre-engineering and who plan to graduate after four years at Pomona College shall complete 36 units in Upper Division courses selected from the above list and from the additional list below:

Mathematics 118
Mathematics 119
Mathematics 210
Physics 156
Physics 191
Engineering drawing (up to 4 units in courses numbered over 100)

PRE-JOURNALISM TRAINING

IN THE RECOMMENDATION of graduate schools of journalism and of distinguished journalists, students planning a career in journalism are advised to concentrate in any principal field of study, to secure a broad and liberal education, and to improve their mastery of the art of writing. Courses in the social sciences, literature, the arts, and foreign languages are strongly recommended. Study in the natural sciences is often desirable, and for some kinds of journalistic work concentration in one of the sciences is advisable. General training in accurate observation and reporting is an important part of all writing courses: English 1, 60, 63, 64, 111, 151.

PRE-LAW PROGRAM

ADEQUATE PREPARATION for the study and practice of law requires the completion of an undergraduate program in the liberal arts leading to the baccalaureate degree.

Students intending to attend a law school following graduation should keep in mind that the best preparation for such professional study is a thorough education in the liberal arts. Lawyers and law teachers agree that the ability to communicate, the ability to write and speak with clarity and precision, is of paramount importance. Studies correlating grades received in undergraduate subjects with grades received in law school have shown mathematics to produce the highest correlation. A broad foundation in government, economics, and history is essential; accordingly if the student concen-

trates in one of these he should be sure to supplement his choic with numerous courses in both of the other fields. Particularl recommended are: introduction to law, constitutional law, Ameri can history, expository writing, accounting, English history, publi finance, money and banking, industrial competition and publi policy, political philosophy, logic, statistics, and psychology.

Several law schools have made careful studies and recommenda tions regarding pre-law school education. These should be consulte through one of the advisers serving on the Pre-Law Committee. H should also be consulted regarding the Law School Admission Tes which is administered every year by the Pre-Law Committee an which is required by practically every major law school in th United States.

PRE-LIBRARY TRAINING

Broad general training and specialized knowledge in a subjec field are essentials for students planning to become librarians. Th ability to use the typewriter with accuracy and speed, and a readin knowledge of at least two modern foreign languages are usuall prerequisites to admission to a library school. All librarians wi find a knowledge of statistical methods useful. Those who inten to go into public library work ought to have an understanding o the organization and problems of government, municipal govern ment particularly, while those aiming at the college and universit field must have a good background in the history and theories o higher education. Students expecting to take up public schoo library work in California are required to complete nine hours i education. Although it is not a prerequisite, actual experience in library is a distinct advantage.

While concentration in pre-library training is not offere students looking forward to work in this field are strongly recom mended to take the following courses: English 101 or 103, 105 History 113 or 103 or 107; six hours of advanced work i Philosophy, Psychology, or Foreign Languages. Other recom mended courses include Education 104, Psychology 107, Art 5 Economics 57, Philosophy 55, Comparative Literature 181.

PRE-MEDICAL COURSE

Certain subjects have been designated by the Council on Medica Education of the American Medical Association as minimu

equirements for entrance to medical colleges. Many of the leading nedical colleges, however, have requirements well beyond this ninimum, and are selecting only those who are best prepared and iave demonstrated the highest scholastic ability and laudable per-onal traits. Pre-medical students are advised not to attempt to rowd the minimum requirements into three years of college work, ut to build, in more leisurely fashion, a broad educational founda-ion. Breadth of view, culture, and a thorough grounding in the iological and physico-chemical sciences are the objectives of the re-medical course. It is important to note that these objectives are tressed by all medical colleges and are playing an increasingly nportant role in shaping their policy of admission.

Below is outlined a curriculum which meets the requirements for raduation from Pomona College and the entrance requirements of ıost of the medical colleges in the United States. It can readily be ıodified, as regards both science and non-science courses, to meet ıe specific requirements of any medical college and the special eeds of individuals. During the last five years the percentage of omona students admitted to medical schools has been well over ouble the national average.

REQUIREMENTS FOR CONCENTRATION

Lower Division Courses: Zoology 1; Chemistry 1, 59; Physics ; Foreign Language, German preferred.

Upper Division Courses: Zoology 117, 137; Chemistry 106, 110a, 1a.

SUGGESTED COURSES

ESHMAN YEAR: English 1; Chemistry 1; Zoology 1; History 1.

PHOMORE YEAR: Chemistry 110, 111; Mathematics 1 or German 1; ology 117. Electives from literature, art or music; philosophy or ligion.

NIOR YEAR: Chemistry 59, 106; Physics 51; German 1 or 53. ectives from social sciences.

NIOR YEAR: Zoology 137.

Most medical colleges require a reading knowledge of either ench, German or Spanish, with a preference for German. Students planning to study medicine should anticipate these

requirements by taking some language in high school with th view toward completing at least one year in college. Also, studen will find it advantageous to take trigonometry in high school. I addition students should consult with their adviser to determin the proper time to take the Medical College Admission Tes taking of which is an entrance requirement of most medic colleges.

Students interested in pre-nursing should consult the Zoolog Department.

TEACHING AND EDUCATIONAL ADMINISTRATION

In California every public school teacher must have a certificat This is issued by the county in which the teacher is employed upo presentation of a credential granted by the State Board of Educa tion.

California requires students who wish a secondary credential t complete a bachelor's degree and one year of graduate work. Whil California permits the fulfillment of elementary credential requir ments in the usual four-year undergraduate program, several Cal fornia colleges and universities consider a graduate program a desirable for elementary as well as secondary teachers. Pomona Co lege is one of these institutions and its elementary credential pr gram is, therefore, organized on a five year plan. The fifth yea may be taken at the Claremont Graduate School (one of the Ass ciated Colleges at Claremont) which is authorized to recommen candidates for most of the general and some of the special teac ing credentials, or at any other college accredited by the State fo teacher education. (Appropriate program planning well in advanc will permit the completion of the elementary credential requir ments with one summer and one semester of graduate work.)

For the *secondary* credential, California requires collegiate prep aration in two fields commonly taught in the secondary schools: "teaching major" representing 36 units and a "teaching minor representing 20 units. These two fields must be selected from th following: social studies, life sciences, physical sciences, Englis speech, language arts, foreign language, mathematics, and healt education; or from the special fields of agriculture, art, busine education, homemaking, industrial arts, librarianship, music, an physical education. Students majoring in areas not offered in se

ndary school curricula must present two "teaching minors." Thus, ost prospective secondary school teachers will concentrate at omona College in the area or areas they expect to teach.

Students preparing for the *kindergarten-primary* or *elementary* edential are not required to present a specific teaching major. he concentration in education is especially designed to serve pros- ective elementary teachers, but several other concentrations are ceptable such as, psychology, art, music, physical education. The ogram for concentration in education is described on page 119.

Inasmuch as requirements vary considerably for different creden- ils, and for the various graduate schools of education, students ho expect to enter the profession of teaching either in California elsewhere should consult the Education Department before regis- ation concerning these requirements.

PRE-THEOLOGICAL TRAINING

STUDENTS PLANNING to prepare themselves for Seminary or Divinity hool training, with a view to entering the parish ministry or col- ge teaching in religion, are advised to secure a well-rounded llege education. They could most profitably fulfill their require- ents for concentration in one of the following departments: Eng- h, History, Philosophy, Psychology, Religion, or Sociology; or in e trans-departmental program in Modern Social Institutions. In y event, the total program for such students should include all the following as a minimum breadth of preparation: Four semes- courses in English (composition and literature); four semester urses in foreign language; two semester courses in philosophy; o semester courses in natural science; six semester courses in ial science, including at least two courses in history, one in eco- mics, one in sociology, and one in social psychology; and six mester courses in religion, including Religion 1, 2 and 65. It is o recommended that such students, regardless of field of concen- tion, consult as early as possible with a member of the Depart- nt of Religion with respect to the broad outlines of their contem- ted undergraduate programs.

Students planning to prepare themselves for Seminary or Divin- t School training, with a view to entering the field of religious ucation, are urged to concentrate in religion in their undergrad- e studies.

SOCIOLOGY

Social Work. Students who plan to follow social work a profession should attend a graduate school of social work, thou in many counties in California (as well as in other states) they c go directly into social work with only a B.A. degree. The exp sion of social services in recent years has created a heavy dema for social workers, but the counties with highest standards acc only workers with at least one year of graduate training. Also, c seldom advances to the higher administrative positions with such training.

The best undergraduate training for students expecting to en graduate schools of social work is a broad liberal arts educati with special emphasis upon the social sciences such as the sociol concentration provides. Introductory statistics and psychol should be included. Economics 111 and Government 103 will found useful. In the Pacific Southwest the ability to speak Span is very helpful, though not essential.

Social Research. There is considerable demand for resea workers in government agencies—federal, state, and local—as w as in private foundations. Usually at least a master's degree required, including a knowledge of statistical method. The regu undergraduate concentration in sociology will prepare one a quately for entrance into graduate school, for which there are ma scholarships and fellowships available for able students.

Teaching. Students preparing to teach sociology should foll the regular sociology concentration. A master's degree is usua essential for teaching in high schools and junior colleges, an doctor's degree for teaching in colleges and universities. Gradu scholarships, fellowships, and teaching assistantships are availa in a good many universities for outstanding students.

Honors Study

Honors study is aimed at a deeper and more scholarly grasp of the student's chosen field than is customary; it is also aimed at broadening his intellectual life by the discovery and exploration of topics relevant to the special subject of inquiry. Students who show the capacity and the inclination for more than average intellectual achievement may be permitted during their Junior and Senior years to enroll for honors study.

An honors program frees the student's energies by allowing him, through a flexible use of instruction and courses of study, to spend a considerable portion of his time in independent study. Released from as much academic routine as his instructors may approve, an honors candidate thus assumes responsibility for a more profound and wider knowledge than is expected of the ordinary student. He will be admitted to honors status only upon the basis of a record which shows promise of competency to carry on work of high quality; he will be continued only if he exercises initiative and self-direction, places scholarship consistently first among his interests, and maintains a high standard of scholarship in his honors program as well as in his other work.

CONDUCT OF PROGRAMS

General administration of honors work is vested in the Courses of Study Committee, which reviews the programs of honors study planned by departments, divisions, or inter-divisional committees and administers the faculty regulations pertaining to them.

Eligibility: A minimum academic grade-point average of 3.0 is ordinarily a requirement for enrollment in honors study. Aside from this requirement, the eligibility of a student for honors status is determined by the department or division in which he will work.

Hours: The number of hours allotted to honors study must be not less than twelve and not more than eighteen. Within the limits of these hours a student may be excused from formal classes. The method of honors study varies in the divisions: it may be carried on in seminar or laboratory projects, or it may consist of independent study or creative work.

The general requirement limiting to a total of fifty-two units the work which may be taken in one department applies also to honors

programs. The comprehensive examination in an honors program however, may cover a greater area than does the Senior compre hensive examination required of all students.

Application: Application for enrollment should normally b made at the end of the Sophomore year. The application form obtainable at the Registrar's office, must include a statement of th program which the applicant intends to follow and must b approved by the faculty member in charge of the program. Fo detailed information concerning divisional and departmental pro grams the student should consult members of the department o division in which he would like to undertake honors study.

Withdrawal: A student may withdraw from honors status a his own request with the approval of the division concerned. I case the performance of a student falls below a standard of hig quality either in his honors work or in his courses, he may b withdrawn from honors status either by the division or by th Courses of Study Committee.

Examinations: Evidence of the success of the student in hi honors work is measured by written and oral examinations adminis tered toward the close of the Senior year. Normally all or part o the Senior comprehensive examination in a field of study will form a part of the honors examination in that field. With regard to hi ordinary courses the student is subject to the requirements normall pertaining to them. He may be exempted at the discretion of th instructors concerned from taking course examinations within th field of his honors program.

A student's performance in his honors examination and in an other work required for the completion of his honors program is judged by the department or division in accordance with pro cedures approved by the division, or, in some instances, by a inter-divisional committee with the approval of the Courses of Stud Committee. A student who has maintained in all his work a grade point average of 3.0 and who has met successfully all the require ments of his program of honors study will be graduated with notation of that accomplishment. He will be eligible also for genera commencement honors described below.

A student who fails to meet the standards of his honors program as a whole, but who completes work worthy of credit in his honor hours will receive credit and grades for the latter but will no

eceive notation of an honors program completed upon his raduation.

COMMENCEMENT HONORS

omona College awards the distinctions *cum laude, magna cum ude,* and *summa cum laude* to graduating seniors who have istinguished themselves in the over-all average of their work and n the senior comprehensive examination.

GRADUATE WORK IN THE CLAREMONT GRADUATE SCHOOL

raduate work in history, oriental affairs, Latin America, political conomy, psychology, literature, philosophy, the biological and hysical sciences, and the fine arts and music, along with rofessional work in public school education and psychology, is nducted by the Claremont Graduate School, whose faculty ncludes members of the staffs of Pomona College, Scripps College, nd Claremont Men's College, as well as its own appointees. A talog will be furnished upon request to the Dean of the Claremont raduate School, Harper Hall, Claremont, California.

INTERCOLLEGIATE PROGRAM

nder a grant from the Fund for the Advancement of Education the Ford Foundation the Associated Colleges at Claremont are operating with Occidental College, the University of Redlands nd Whittier College in an Intercollegiate Program of graduate udies in the Humanities and Social Studies. Those interested in te program should consult the Dean of the Graduate School.

GRADUATE RECORD EXAMINATION

MANY OUTSTANDING graduate or professional schools require or quest that applicants for admission, as well as for fellowships and holarships, take the Graduate Record Examination administered Educational Testing Services, the national academic testing ganization. The Graduate Record Examination tests general owledge in the fields of study covered by the Pomona College riculum and does not require special preparation. Students who end to enter graduate or professional schools are advised to write ly in their senior year directly to the Educational Testing Serv-, Box 9896, Los Feliz Station, Los Angeles 27, California.

Courses of Instruction

ELEMENTARY courses numbered below 50 are design primarily for the freshman year. Courses numbered 50 to are either those which follow the lower course or are the mo advanced beginning courses. Courses numbered over 100 are f juniors and seniors and may not be entered by students witho previous work in the same field, except by written permission instructors. Courses numbered NC carry no academic credit. some departments a definite sequence of courses must be followe

The hyphen in a course number designates that credit will not allowed for only one semester of the year course. When cour numbers are connected by a comma, credit is given for a sing semester, but unless a passing grade has been received for the fi semester of the course entrance to the second semester is by pe mission of the instructor.

Any course may be withdrawn if the enrollment is less than fiv

Except by special permission, credit for only one unit of wo in a department is not allowed.

COURSES IN THE ASSOCIATED COLLEGES

Following the departmental offerings of Pomona College are list certain courses in Scripps College and Claremont Men's Colle open to Pomona sophomores, juniors and seniors under approv conditions. Normally only those courses so listed are open to P mona College students. It should be noted that most of the Scrip College courses are year courses and consequently credit cann be allowed for only one semester. To enroll in courses other tha those listed, students must first obtain a permission slip from th chairman of the corresponding department at Pomona. Eac regular student in residence in Pomona College shall, howeve select not less than half of his registration each academic year fro courses in Pomona College. Normally freshmen will take the entire programs of study in the college of their residence. In a fe departments involving the use of physical equipment and laborato space, such as art and the sciences, it is necessary to impose limi on the exchange privileges.

Certain graduate courses in the Claremont Graduate School a also open to Pomona seniors who are concentrating in the fiel

ı which the courses are offered. Short titles for these courses are iven following departmental offerings. For fuller description con- ılt the catalog of the Claremont Graduate School. Permission to ıroll in graduate courses must be secured from the chairman of ıe department in which the senior is concentrating and from the ıstructor giving the course.

Where a course in Scripps, Claremont Men's College, or the raduate School duplicates the material of a Pomona course, credit ill not be given for both.

DIVISIONS

he courses in the Pomona College curriculum are arranged in ree divisions as follows:

IVISION I [*Humanities*] Art, Chinese, Classics, Comparative Litera- re, English, German, Music, Philosophy, Romance Languages, ıssian, Speech and Dramatics.

IVISION II [*Natural Sciences*] Astronomy, Biology, Botany, ıemistry, Geology, Mathematics, Military Science, Physics, Psy- ology, Zoology.

VISION III [*Social Sciences*] Economics, Education, Geography, ɔvernment, History, Oriental Affairs, Physical Education, Reli- ɔn, Sociology.

Art

vo types of concentration are open to students of art within the department: History of Art and the Practice of Art. Specialization may be determined the second year, but correlation between the history and practice of art is intained.

Not more than 16 hours of applied art courses numbered under 100 are epted toward graduation.

A comprehensive examination is required of all candidates for the helor of Arts degree.

CONCENTRATION REQUIREMENTS

n addition to the required courses listed in the concentrations described ɔw, the student is required to elect an additional number of upper division courses to make a total of at least 30 units.

HISTORY OF ART

ver Division Requirements: History 1, Art 3, 9, 51.

per Division Requirements: Eighteen units of upper division art history and 178 a or b.

PRACTICE OF ART

Lower Division Requirements: Art 3, 9, 51 and either 61 or 65.

Upper Division Requirements: 120 and six units of 185 or 10 units of 16 plus additional electives to equal a total of at least 16 units of uppe division practice of art and 12 units of art history.

SPECIAL PROGRAM WITH THE PRACTICE OF ART TAKEN AT SCRIPPS COLLEGE

Lower Division Requirements: Art 51, Art II-2, and one of the following Art II-21, II-22, II-23 or II-30.

Upper Division Requirements: Twelve units of upper division art history an eighteen units of the practice of art at Scripps College.

HISTORY OF ART

51a-51b. SURVEY OF THE HISTORY OF ART. *Mr. Robertson.* A study of the histo ical development of art with special attention to an analysis of the works e amined. First semester: from the prehistoric period through the Gothic era second semester: from the Renaissance to the contemporary scene. This cours or its equivalent is normally a prerequisite for advanced courses in the histor of art. 3 units. *MWF, 11.*

107a, 107b. ANCIENT ART AND ARCHAEOLOGY. *Mr. Carroll.* A survey of th arts of Greece and Rome, in reference to the life of both countries and t neighboring civilizations (Egyptian, Near Eastern, Italic, Etruscan, etc.) The first semester will cover Greece, from the prehistoric Minoan-Mycenea culture to Alexander the Great. Hellenistic Greece, Rome and the Roma World are reserved for the second semester. 3 units. *TThS, 10.*

110a, 110b. MEDIEVAL ART. *Staff.* Early Christian art of Italy and th Western Empire. Byzantine art of the Eastern Empire and the Orthodo Churches. Carolingian and Romanesque art. The second semester will cove Early and High Gothic art in Northern Europe. 3 units. *TThS, 8.*

113a, 113b. ART FROM 1700. *The Staff.* A study of the principal trends an individual masters in art from the rococo period to the present day. Firs semester: from Watteau to Delacroix; second semester: from Daumier t the present. 3 units.

117a, 117b. ART OF THE FAR EAST. *Staff.* The art of India from its begin nings to the end of Buddhism. Indian art in Southeast Asia. Early art o China. Second semester will cover the Buddhist and secular art of later China the art of Japan and the later art of India. 3 units. *TThS, 9.*

118a, 118b. SOUTHERN RENAISSANCE AND BAROQUE ART. *Mr. Robertson* A study of architecture, sculpture, painting and applied art in Italy from th 14th century to the middle of the 18th century. The second semester wil include a study of 16th and 17th century Spanish painting. 3 units. *TThS, 9* (Omitted in 1954-55.)

119a, 119b. Northern Renaissance and Baroque Art. *Mr. Robertson.* First semester: Netherlandish art from the Van Eycks to the beginning of the 16th century; German art, with special reference to Durer, Grunewald and Holbein. Second semester: Flemish painting from Bruegel to Rubens, and Dutch and French art of the 17th century. 3 units. *MWF, 9.*

121a, 121b. American Art. *Mr. Robertson.* Art of the American Indian, stressing the high cultures of Mexico and the Pueblos of the American Southwest. Art of the English Colonies of the Atlantic Coast and the Spanish Colonies of the Southwest. The second semester will cover the art of the United States from the nineteenth century to the present. 3 units. *MWF, 10.* (Omitted 1954-55.)

178a, 178b. Problems in the History of Art. *Mr. Robertson.* The study of a particular artist, period, school or movement in art or art theory. Offered primarily for majors. 3 units. Arranged.

PRACTICE OF ART

3a-3b. Design. *Mr. Grant.* A basic course investigating the fundamentals of design as applied to painting and drawing. 2 units. Two sections. *MW, 1:15-3:05; MW, 3:15-4:05* and 1 hour arranged.

9a-9b. Sculpture. *Mr. Lawler.* A basic course in sculpture, comprising a study of the nature of form. Consideration of sculptural techniques and materials. 2 units. Two sections. *TTh, 1:15-3:05; TTh, 3:15-5:05.*

61a, 61b. Drawing. *Mr. Grant.* An introductory course investigating various drawing problems and methods as applied to the human figure, still life and landscape. Completion of 3a-b or permission of the instructor is required. 2 units. *TTh, 9-11.*

65a, 65b. Advanced Sculpture. *Mr. Lawler.* Continuing study of the nature of form. 2 units. Two sections. *TTh, 1:15-3:05; TTh, 3:15-5:05.*

105a, 105b. Advanced Drawing. *Mr. Grant.* 2 units. *TTh, 9-11.*

120a, 120b. Painting. *Mr. Hammersley.* A course investigating various painting problems and methods as applied to still life, the human figure and landscape. The painting course is essentially a continuation of the drawing class, with the addition of an emphasis on the use of paint. 2 units. *TTh, 1:15-3:05.*

162a, 162b. Creative Sculpture. *Mr. Lawler.* A course open only to advanced students of ability for the development of original problems in various media. May be repeated for credit. 1 to 3 units. Two sections. *TTh, 1:15-3:05; TTh, 3:15-5:05.*

185a, 185b. Problems in Painting and the Graphic Arts. *Mr. Grant* or *Mr. Hammersley.* Opportunity is given for the pursuit of individual projects to suit the interest and ability of the student. May be repeated for credit. 1 to 3 units. Arranged.

AVAILABLE AT SCRIPPS COLLEGE

II-2. Fundamentals of Drawing and Design. *Staff.* Year course. Open only by special permission. *MWF, 1:15-4:05.*

II-21. Beginning Painting. *Staff.* Year course. Prerequisite II-2 or its equivalent. *MWF, 1:15-4:05.*

II-22. Beginning Weaving. *Mrs. Stewart.* Year course. Prerequisite II-2 or its equivalent. *MWF, 1:15-4:05.*

II-23. Beginning Ceramics. *Mr. Petterson.* Year course. Prerequisite II-2 or its equivalent. *MWF, 1:15-4:05.*

II-30. Beginning Sculpture. *Mr. Stewart.* Year course. Prerequisite II-2 or its equivalent and permission of instructor. *MWF, 1:15-4:05.*

II-121. Advanced Painting. *Staff.* Year course. Prerequisite II-2 or equivalent. *MWF, 1:15-4:05.*

II-122. Weaving. *Mrs. Stewart.* Year course. Prerequisite II-2 or equivalent. *MWF, 1:15-4:05.*

II-123. Ceramics. *Mr. Petterson.* Year course. May be repeated for credit. Prerequisite II-2 or equivalent. *TTh, 1:15-4:05.*

II-130. Sculpture. *Mr. Stewart.* Year course. May be repeated for credit. Prerequisite II-2 or equivalent and permission of instructor. *MWF, 1:15-4:05.*

II-141. Principles of Architecture and Design. Mr. Scott. One or two year course. Prerequisite II-2 or equivalent. By permission of instructor. *TTh, 1:15-4:05* and arranged hour.

I-170. Printing. *Mr. Foster.* One or two year course. *TTh, 1:15-4:05.* Registration by permission of the instructor. (Omitted in 1954-55.)

I-171. Bookmaking in the Middle Ages. *Mr. Foster.* Second semester. *TTh, 1:15-4:05.*

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Graduate work in the history of art and architecture and in applied art is available under the auspices of the Claremont Graduate School.

Astronomy

Pomona College was a pioneer in the study of astronomy in Southern California, which has now become the greatest center for research in this field. The Observatory at Mt. Wilson which houses the 100-inch telescope can be seen from the campus. The famous Mt. Palomar Observatory with its 200-inch telescope is about 100 miles from the campus. Field trips are made periodically to each of these observatories.

Prerequisites for each course offered in Astronomy are noted in the course descriptions given below. A minimum program for concentration in Astronomy, with a minor in Mathematics and Physics, should include Astronomy

61a, b, 156a, b, Physics 51a-b, 113a-b, 153, 155, and Mathematics 1a-b, 65a-b, and 151a-b. For majors in Astronomy intending to proceed to graduate study the following courses are also required: Astronomy 180a-b, Physics 110, 141a-b, and Mathematics 102a-b. A reading knowledge of French and German is strongly recommended.

1a, 1b. Introduction to Elementary Astronomy. *Mr. Routly.* A descriptive and non-mathematical account of the planets, solar system, constellations, and galaxy. Intended as a course for students desiring a cultural appreciation of modern astronomy. No prerequisites. Periodic observation of interesting objects with equipment at the Observatory. Field trips to the astronomical centers of the region arranged. 3 units. *TThS, 9.*

61a, 61b. General Astronomy. *Mr. Routly.* A more thorough and extensive treatment of the material contained in Astronomy 1a, b for qualified students who have a serious interest in Astronomy. Additional topics include an account of astronomical instruments, the elements of celestial mechanics and navigation, stellar types and spectral classification, and galactic structure. Practical problems are carried out on the various instruments at the observatory during the laboratory periods, which are compulsory and form an integral part of the course. Prerequisite: Mathematics 1a-b, taken previously or concurrently. Laboratory fee $2.00. 4 units. Class *MWF, 9.* Laboratory to be arranged.

156a, 156b. Astrophysics. *Mr. Routly.* An advanced course illustrating how the techniques of physics are applied to astronomical problems of current research interest. Topics covered include the elements of spectroscopy, stellar interiors, stellar atmospheres, and interstellar space. Prerequisites: Mathematics 151a-b, taken previously or concurrently, and Physics 51a-b. No previous training in Astronomy required. Course intended for majors in Astronomy and other qualified science students. 3 units. *MWF, 11.*

180a, 180b. Selected Topics in Astronomy. *Mr. Routly.* A course intended for majors in Astronomy proceeding to graduate study. Contents will consist of topics not covered in Astrophysics 156a, b, additional training in atomic spectroscopy, and an introduction to molecular spectroscopy. Some suitable investigation, equivalent to a senior thesis, will be conducted by each student during the year. Prerequisite: Astrophysics 156a, b, taken previously or concurrently. 3 units. Arranged. (Omitted in 1954-55.)

Biology

Requirements for concentration: Biology 112; Botany 12, 14, 15, 75, and at least nine units chosen from 103, 105a, 107 or 117, or 123a; Zoology 1, 37 or 137, and nine units chosen from 106, 107, 117, 130, 150, 157. (Biology 105 may be substituted for any upper division course in the above list except Biology 112); additional upper division courses in botany, zoology, or biology to bring the total to 30 units or more. Related fields: high school or college chemistry; Physics 1 or 51, or Geology 1a, 1b and 2a, 2b.

1a. General Biology. *Mr. Salisbury.* A general course designed for those who do not intend to take further work in biology. Students who have had high school courses in biology, botany, or zoology should take Botany 12 and 15 or Zoology 1 or 11 instead of Biology 1. A consideration of fundamental principles, materials, and methods important to every human being. Fee $6.00. 3 units. First semester. Class *MWF, 10* or *11; M* or *W, 1:15-2:35* or *2:45-4:05* must be kept open for laboratory.

1b. General Biology. *Mr. McCarthy, Mr. Ryerson.* A continuation of Biology 1a with illustrations drawn mainly from animal biology and human biology. Lectures, demonstrations and laboratory. Laboratory fee $6.00. 3 units. Second semester. Two sections: Section A, lectures *MWF, 10,* laboratory *T,* one hour, *1:15, 2:15* or *3:15;* Section B, lectures *MWF, 11,* laboratory *M,* one hour, *1:15, 2:15* or *3:15.*

105. Bacteriology. *Mr. Ryerson, Mr. Amrein.* General study of bacteria including their importance in disease and industry. Laboratory exercises on methods of culture and examination. Prerequisite: one year of biological work. Laboratory fee $8.00. 4 units. First semester. Lectures *MWF, 9.* Laboratory *MW, 2:15-4:05.*

112. Genetics. *Mr. McCarthy.* This course considers modern developments in the study of heredity and evolution and their general application to plant and animal breeding and to eugenics and race questions. Prerequisite: one year of biological work. 3 units. Second semester. *MWF, 11.*

159. History of Biology. *Mr. Amrein.* A commentary on the progressive trends and periods of biological science, tracing the continuity of ideas which have culminated in important discoveries. Leaders in each field are considered for special study in which the influences of their discoveries upon society and development of science are analyzed. 3 units. First semester. *MWF, 10.*

Botany

Although botany is a pure science, and the curriculum at Pomona is planned with this in mind, the subject offers excellent basic training for applied fields. Study of botany may serve as preparation for graduate study and eventually for teaching, research, or service with such federal, state, or county governmental agencies as the United States Bureau of Plant Industry, Forest Service including the Forest and Range Experiment Stations, National Park Service, Soil Conservation Service, Fish and Wild Life Service, state fish and game commissions, or agricultural inspection agencies.

Botany Concentration: lower division courses, Botany 12, 14, 15, 75 (at least 3 times); Zoology 1 (or Biology 1b and a summer session at the Marine Laboratory). upper division courses, Botany 103, 105, 107, 117, 123a, and 123b or 158 and additional courses in botany (courses 103-175), selected to

nake a total of 24 to 36 units of upper division work. RELATED FIELDS, Biology :12; high school or college chemistry (students emphasizing plant physiology hould have Chemistry 1, 59, and 106, and 110 is recommended); high school ır college physics (Physics 1 or 51) or Geology 1. Prospective candidates for graduate work should consult the department concerning foreign language equirements for advanced degrees. English 63 is recommended.

Seniors with concentration programs in botany or in biology emphasizing otany are required either (1) to present a satisfactory paper and to pass an ral examination on the field of the paper, or (2) to pass the senior comrehensive examination.

Plant Collection: All students concentrating in botany should consult Mr. Benson concerning the plant collection built up in various courses. This is a raduation requirement, and the collection must be submitted for inspection t the time of the senior comprehensive examination. Credit for individual work n the collection may be had by registration in Botany 75. *This course should e taken in the last semester before graduation* in order to bring the collection ıto good order before it is submitted for inspection.

Botany-Zoology Concentration: See Biology.

Botany-Chemistry Concentration: LOWER DIVISION COURSES, Botany 12, 14, 15, 5 (at least twice); Chemistry 1, 59; Physics 51. UPPER DIVISION COURSES, Botany 03, 105a, 107, 117, 123, and 158; Chemistry 106, 110, 111. Recommended ectives from the following list: Biology 112; Botany 105b, 167, 175; Chemistry 58, 184, 187; Zoology 1, 37 or 137. Botany 12, 14, and 15 and Chemistry 1 ıould be taken in the freshman year, and the full program should be planned s early as possible.

2. GENERAL BOTANY. *Mr. Benson and Mr. Salisbury.* An elementary course rimarily for those wishing general information concerning plants but also rving as foundation work in botany. A study of plants as living organisms ith emphasis upon structure and physiology of flowering plants; studies of volution and of heredity. Laboratory fee $6.50. Ordinarily 3 units, but for udents who have had college biology or zoology, sometimes by permission units. First semester *MWF, 11,* must be kept open for class. Laboratory ection A, *T, 1:15-3:05;* Section B, (if there is sufficient demand), to be ranged. Field trips arranged.

4. FIELD STUDIES OF EVOLUTION. *Mr. Salisbury and Mr. Benson.* Evidences of olution; differentiation and isolation of species. Field studies of evolving opulations of plants, hybrid swarms resulting from interbreeding of species, ow of genes from one species to another, physiological and ecological factors fecting evolution, and structural and physiological modifications of plants owing on mountains, deserts, beaches, marshes, woodlands, and brushlands. erequisite: Biology 1, Botany 12, or Zoology 1. Laboratory and field trip e $6.50. 2 units. Second semester. Class *M, 2:15-3:05;* field trips, *M, 3:15-5:05* ıd some longer trips.

15. Field Classification of Flowering Plants, Conifers, and Ferns. *M Benson.* An elementary course in classification of primarily the flowering plan but also of ferns and cone-bearing trees; with much field work. An elementar course designed for the general student and with no prerequisit but permission of the instructor required. Laboratory and field trip fee $8.7 3 units. Students concentrating in botany or biology with emphasis on botar must, others may, register for at least 1 unit of Botany 75 concurrently. Secon semester. Class *MF, 11;* Field Section A, *T, 1:15-3:05.* Section B, (sufficient demand), to be arranged. There are some additional longer trips.

75. Plant Classification. *Mr. Benson.* Individual work in classification vascular plants (ferns, cone-bearing trees, and flowering plants). The stude begins or continues a collection of specimens used for developing a compar tive method of plant identification. May be taken as an Elective, but require concurrently with Botany 15 for those concentrating in botany or in biolog with emphasis on botany. May be repeated for credit. Permission of instructo required. Laboratory fee $2.00 per unit. 1 or 2 units. First semester, ordinaril *M, 1:15-2:05* and arranged. Second semester, arranged, but ordinarily inclu ing either *M, 1:15-2:05* or (especially when taken the first time) *W, 11.*

81. Elementary Botanical Problems. *Staff.* This course offers to qualifie students opportunities for additional supervised laboratory work in such fiel as (a) structure and classification of algae, (b) culture and special physiolog of plants of any group favorable for study, (c) structure and development plants, or (d) ecology. Each semester, 1 or 2 units, but not more than 1 un may be taken in the first enrollment for a problems course. May be repeate for credit. Permission of the instructor required. Laboratory fee $2.00 p unit. Arranged.

103. Plant Ecology (Autecology). *Mr. Salisbury.* A study of the effect environment upon plants of forests, deserts, chaparral, grassland, and woo land, including the use of ecological and weather instruments in the fiel the effect of plants on the environment; and ecological adaptation in relatio to plant evolution. Prerequisite: Botany 12 or permission of the instructo Laboratory fee $8.00 and breakage deposit $5.00. 3 units. First semeste Given in alternate years. Class *TTh, 8;* laboratory and field trips *MW,* or occasional longer trips.

105a, 105b. Classification of Flowering Plants. *Mr. Benson.* Study of th local native flowering plants and also of ferns and cone-bearing trees. Evolutio ary series of orders and families of flowering plants; principles and methods classification of the higher taxa; history of botanical classification; geographic distribution of plants correlated with geological history; practice in identific tion. Field trips for study of plants in their native habitats. Prerequisit Botany 15. Laboratory and field trip fee $8.75 each semester. 3 units. Give in alternate years. Class and laboratory, *TTh, 9:00-10:50;* field trips arrange

107. Structure, Development, and Relationships of Non-Vascular Plant *Mr. Salisbury.* A review of the structure, evolutionary series, and relationshi

of classes and orders of algae, fungi, mosses, and liverworts. Prerequisite: Botany 12 or equivalent. Laboratory fee $8.00. 3 units. Second semester. Given in alternate years. Class, *MW, 10;* laboratory and field trips, *W, 1:15-4:05.*

117. Structure, Development, and Relationships of Vascular Plants. *Mr. Benson.* A review of the structure, evolutionary series, and relationships of the classes and orders of pteridophytes (ferns, etc.) and gymnosperms (cone-bearing trees), and of the fundamental life history of flowering plants. Prerequisite: Botany 12 or equivalent. Laboratory fee $8.00. 3 units. Second semester. Given in alternate years. Class *TTh, 9;* laboratory and field, *M, 2:15-5:05.* (Omitted in 1954-55.)

123a, 123b. Plant Physiology. *Mr. Phillips.* A study of physiological processes and principles, including photosynthesis, germination, dormancy, water relations, mineral nutrition, respiration, growth and growth hormones, and factors affecting flowering and fruiting. Experiments include studies of growing plants in the greenhouse and laboratory exercises. Prerequisite: Botany 2 and high school chemistry, or permission of the instructor. Laboratory fee 10.00 each semester and breakage deposit $5.00. 3 units. Given in alternate years. Class *TTh, 10;* laboratory *W, 1:15-4:05.* (Omitted in 1954-55.)

158. Advanced Plant Ecology (Synecology). *Mr. Salisbury.* The analysis of plant communities by various types of field sample plots to determine which plants are associated and why; discussions of factors affecting plant geography and the major plant communities primarily of the United States. Prerequisites: Botany 12, 15, 103, and completion of or concurrent registration in Botany 105; or permission of the instructor. Laboratory fee $8.00. units. Second semester. Given in alternate years. Class *MW, 9;* laboratory and field trips *Th, 2:15-4:05,* and occasional longer trips.

167. Plant Microtechnique. *Mr. Phillips.* Preparation of microscope slides with practice on materials partly of the student's own choosing to represent structure or development of plants or for cytological data. Prerequisite: Botany 1, 107 or 117; or permission of the instructor. Laboratory fee $7.00 and the cost of special materials for the student's slide collection. Second semester. units. Given in alternate years. Class and laboratory, arranged on *T* between *1:15* and *5:05.* (Omitted in 1954-55.)

175. Evolution of Species and Principles of Plant Classification. *Mr. Benson.* Field studies on the evolution and definition of species; principles involved in organizing plant groups according to genetic relationships into genera, species, and varieties; methods of exploration for data; classification of native populations. Students enrolled for three units will study problems of choice of scientific names, description, and methods of preparation and documentation of technical papers on plant classification. Prerequisite Botany 14, permission of the instructor. Laboratory and field trip fee $9.00. First semester. 2 or 3 units. Given in alternate years. Class *TTh; 9;* field trip time

to be arranged at an advance class meeting during preregistration. (Omitted 1954-55.)

181. Advanced Botanical Problems. *Staff.* Special individual work in any field of botany for students with adequate preparation. The student may anticipate preparation of a thesis for the Master's Degree by beginning a problem or continuing one begun in Botany 123, 158, 167, 175 or other courses, or he may work upon any significant problem approved by the instructor. Each semester. 1 to 3 units. May be repeated for credit. Permission of the instructor required. Laboratory fee $2.00 per unit. Arranged.

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Graduate work in botany is offered through the Claremont Graduate School by the joint staffs of Pomona College and the Rancho Santa Ana Botanic Garden (now located in Claremont). The facilities for research in plant classification are particularly good because the Pomona College Herbarium includes about 315,000 specimens and the combined herbaria 400,000. The libraries of both institutions have been developed primarily for work in this field, and the Garden has unusual facilities for experimental study of species. The instruction and research staffs include specialists in plant taxonomy or systematic botany, experimental study of evolution of species, cytology and genetics, ecology and plant physiology, and mycology and cryptogamic botany. The vicinity of Claremont offers remarkable opportunities for field study of both plant classification and ecology because forest, alpine, woodland, chaparral, grassland, ocean shore, and various desert floras occur within a forty mile radius.

GRADUATE COURSES OPEN TO QUALIFIED UNDERGRADUATES

207. Plant Anatomy. *Mr. Munz.* Internal structure of higher plants. Prerequisite: 117. 3 units. Second semester. One 2-hour class period and one laboratory. Arranged. Second semester, if there is sufficient demand.

210. Cytology. *Mr. Lenz.* Structure and function of the plant cell. Prerequisite: Biology 112. 3 units. First semester. Arranged.

217. Morphology and Classification of algae. *Mr. Benjamin.* A general survey of the algae. Prerequisite: 107. 3 units. Second semester. Arranged.

220a, 220b. Evolution. *Mr. Grant.* Variation, selection, drift, isolating mechanisms, hybridization, polyploidy, evolutionary rates, evolutionary trends. Prerequisite: Biology 112, Botany 14, 175. 4 units each semester. Arranged.

225. Phylogeny of Angiosperms. *Mr. Munz.* Evolution of and relationships in flowering plants. Prerequisite: 105a and concurrent registration for 105b. 3 units. Second semester, if there is sufficient demand. Arranged.

227a, 227b. Morphology and Classification of Fungi. *Mr. Benjamin.* A general course in mycology. Prerequisite: 107. 4 units each semester. Arranged. (Omitted in 1954-55.)

.5. Plant Geography. *Mr. Munz.* The vegetation of the earth with refer-ıce to geological history, present distribution, and evolution. Prerequisite:)5a and concurrent registration for 105b. 2 or 3 units. Arranged. (Omitted 1954-55.)

:7. Morphology and Classification of Vascular Plants Exclusive of ngiosperms. *Mr. Munz.* Research literature, general papers, and books; a)n-laboratory course. Prerequisite: 117. 3 units. Second semester. Arranged.

OTE: The prerequisites listed above apply to Pomona College students.)r graduate students the requirements are determined by the instructor.

Zoology

ıree programs of concentration are offered: Zoology; Zoology-Chemistry; d Zoology-Botany (Biology). Students interested in pre-medical training ould consult the pre-medical course under Pre-professional Programs.

ology Concentration. Requirements: Zoology 1, 117, 137, and 157. In addi-n Zoology 130 and 150 and Biology 159 are strongly recommended.

ology-Chemistry Concentration. Requirements: Zoology 1, 137, and Biology 5; Chemistry 1, 59, 106, and one semester of 110 and 111; Physics 1 or 51; d 8 units chosen from Chemistry 110b, 111b, 107; Zoology 106, 107, 7, 125, 157, and Biology 159.

ology-Botany Concentration. For requirements consult program listed under ology.

ıe Zoology Department of Pomona College in an arrangement with the lifornia Institute of Technology offers summer work at the Kerckhoff arine Laboratory at Corona del Mar. The 1954 session will run from ıgust 2 to September 4 inclusive. Tuition for full registration (6 units) 0.00. Further information may be secured from the Department of Zoology.

ı 1b. General Zoology. *Mr. Pequegnat, Mr. Amrein.* An introduction to the special fields of modern zoology for those desiring general information ıcerning animals, as well as for majors in the department. Reference is ıde to all classes of animals, but only those forms which best illustrate portant zoological principles are studied intensively. No prerequisites. boratory fee $6.00 each semester. 3 units. Two sections. Section A, lectures *Th, 8;* laboratory *Th* at either *1:15-3:05,* or *3:15-5:05.* Section B, lectures *Th, 10;* laboratory *W* at either *1:15-3:05* or *3:15-5:05.* Laboratory maximum 24 students.

ı Marine Zoology and Ecology. *Mr. Pequegnat.* An elementary course oted to discussion of biological principles as observed in marine animals. addition considerable attention is given to the evolutionary development of

the various groups, as well as to their specific identification, their ecologic distribution, and their habits. Lecture, laboratory, and field work. Designe especially to fulfill the Biological Science requirement. Offered at the Mari Laboratory during the summer. 6 units.

37. Introduction to Anatomy and Physiology. *Mr. McCarthy.* A cour designed primarily for students whose interests lie in physical educatio physical or occupational therapy or nursing, psychology or sociology. Speci attention given to the human subject and to the physiology of exercise. units. Laboratory fee $6.00. Prerequisite: Biology 1 or equivalent. Fir semester. Lectures *MWF, 11;* laboratory *F, 1:15-4:05.*

106. Parasitology. *Mr. Amrein.* An introduction to the general nature parasitism, including a survey of all types of animal parasites. Those greatest medical, economic, and social importance to man will receive maj consideration. Prerequisite: any of the following: Zoology 1, 11, or Biology 2 units. Second semester. *MW, 9.*

107. Parasitology Laboratory. *Mr. Amrein.* Study both of prepare materials of significant parasites and their biological vectors, and of livin parasites removed from invertebrate and vertebrate hosts. Prerequisit Zoology 106. (May be taken concurrently.) Laboratory fee $4.00. 1 uni Second semester. *M, 2:15-4:05* and an arranged hour.

117a, 117b. Developmental and Comparative Anatomy. *Mr. McCarthy. M Pequegnat.* A study of development of representative vertebrates from fert lization through organogenesis, and an analysis of the phylogenetic chang undergone by organ-systems. Prerequisite: Zoology 1. Laboratory fee $8.0 each semester. 4 units. Lectures *MWF, 9.* Laboratory either *T* or *Th, 1:15-4:0*

125. Histological Technique. *Mr. McCarthy.* Theory and practice preparation of vertebrate cells and tissues for microscopical study. Pr requisite: Zoology 1. May be repeated for credit. Laboratory fee $4.00. units. Second semester. Lecture *W, 1:15,* laboratory *W, 2:15-4:05* an arranged hour.

130. Marine Invertebrates. *Mr. Pequegnat.* A study of invertebrates r siding in the sea from the points of view of their phylogenetic relationship their morphology, and their physiology. Lecture and laboratory. Laborato devoted principally to Pacific Coast types. Offered at the Marine Laborato during the summer. 3 units.

137a, 137b. Advanced Physiology and Anatomy. *Mr. Ryerson.* One semest is devoted primarily to mammalian physiology, with special emphasis on th integrative aspects of hormones and of the nervous system. The other semest deals primarily with the gross and microscopic structure of the mammal, i cluding a regional approach to the dissection of the cat. Prerequisites: Zoolo 1, or 37. General chemistry recommended. 5 units. Laboratory fee $8.00 eac semester. Lectures *MWF, 8;* laboratory *TTh, 1:15-4:05.*

;o. Marine Ecology. *Mr. Pequegnat.* A study of marine invertebrates as ey exist in the field. Animals are observed and collected in the field and turned to the laboratory for specific identification and observation in the ing state. The lectures are devoted to discussion of the distribution of each ecies observed and the factors which may account for these distributional tterns. The course is so organized that anyone registering for it should her have a thorough grounding in the morphology and physiology of arine invertebrates or take Zoology 130 concurrently. Offered at the Marine aboratory during the summer. 3 units.

;7a, 157b. Animal Ecology. *Mr. Pequegnat, Mr. Amrein.* A study of the id vertebrates and insects, principally of this region, considering the bases classification, life histories, populations, and the factors which account for eir present distribution. Laboratory fee $4.00 each semester. 3 units. Lectures, *Th, 9;* laboratory *F, 1:15* to *4:05.*

9. Introduction to Research in Zoology. *Staff.* Each semester. 1 to 3 its. May be repeated for credit. Laboratory fee $2.00 per unit. Offered at arine Laboratory as well as at Claremont. Arranged.

Chemistry

ncentration Requirements: Chemistry 1, 59, 106, 107, 110, 111, 112, 158,); Physics 51; Mathematics 1, 65.

eprofessional Program: Students who plan professional work in Chemistry ould follow the suggested program below. This program has been approved the American Chemical Society Committee for Professional Training of emists. The schedule is intended as a guide only for aid in planning the gram and individual deviations may be made as needed.

eshman Year: Chemistry 1 or 59, 106; Mathematics 1; English 1; German Elective.

ohomore Year: Chemistry 59-106, or 110, 111; Mathematics 65; Physics 51; rman 53; Elective.

nior Year: Chemistry 107, 110, 111, 112, 181a *or* 107, 158, 159, 181a; ctives.

nior Year: Chemistry 158, 159, 181b, 184, 185, 187 *or* 112, 181b, 184, 185, ; Electives.

ology-Chemistry Concentration: Requirements: Zoology 1, 137, and Biology ; Chemistry 1, 59, 106, and one semester of 110 and 111; Physics 1 or 51; l 8 units chosen from Chemistry 110b, 111b, 107; Zoology 106, 107, , 125, 157, and Biology 159.

any-Chemistry Concentration: See Botany.

Fees: A fee is required for each laboratory course, to cover the cost c chemicals. In addition a locker deposit must be made to cover breakage an loss of equipment. The unused balance of the deposit is returned at the en of the year.

1a, 1b. Introductory Chemistry. *Mr. Smith.* Beginning course t acquaint the student with basic principles of chemistry and reaction of the more common elements. Fee, $6.00 each semester. Deposit, $5.00 fo the year. 4 units. Lectures, *MWF, 9.* Laboratory *TTh or F, 1:15-4:05.*

Second Year Chemistry. Exceptionally well prepared students may, with the consent of instructor, omit Chemistry 1 and start with 59. The courses in qualitative and quantitative analysis, Chemistry 59, 106, are coordinated to give an advanced review of chemical reactions and theories along with the study of analytical methods.

59. Qualitative Analysis. *Mr. Mooi.* The lectures deal with application of the principles of chemical equilibrium to the separations and identification of the common ions, and with the chemical reactions of these ions. Semimicr analytical procedures are used. The course is offered for 3 or 4 units. Th 4 unit course contains additional lectures on the chemistry of the element and will be taken by students who have not taken Chemistry 1 or its equiva lent. The 3 unit course will be taken by those who have had Chemistry 1 or it equivalent. Prerequisite: Chemistry 1 or consent of instructor. Fee, $6.00 deposit, $5.00. 3 or 4 units. First semester. Lecture *TTh, 10.* Laboratory, *M 2:15-5:05,* and *W, 1:15-4:05,* or *TTh, 1:15-4:05.*

106. Beginning Quantitative Analysis. *Mr. Mooi.* The lectures deal wit the theory and practice of analytical methods. The course is offered for 3 or units. The 4 unit course contains additional lectures on selected topics of in organic chemistry and will be taken by students who have not taken Chemistr 1 or its equivalent. The 3 unit course will be taken by those who have ha Chemistry 1 or its equivalent. Prerequisite: Chemistry 59. Fee $8.00, deposit $5.00. 3 or 4 units. Second semester. Lectures, *TTh, 10.* Laboratory, *M, 2:15 5:05,* and *W, 1:15-4:05,* or *TTh, 1:15-4:05.*

107. Advanced Quantitative Analysis. *Mr. Smith.* An introduction t modern instrumental analysis. Prerequisite: Chemistry 106 or equivalent. Fe $8.00, deposit $5.00. 3 units. First semester. Laboratory *M, 2:15-5:05* and *TW 1:15-4:05.*

110a, 110b. Elementary Organic Chemistry. *Mr. Hansch.* The first semeste devoted to the study of aliphatic compounds and the second semester t aromatic. Prerequisite: Chemistry 1 or equivalent. 3 units. Lectures *MWF 11.*

111a, 111b. Introduction to Organic Laboratory Methods. *Mr. Hansch* First semester, instruction in laboratory operations and organic preparation Second semester, organic preparations and introduction to qualitative organi analysis. Fee $6.00, deposit $5.00 each semester. 1 unit. Laboratory *M, 2:15 5:05; F, 1:15-4:05.*

112. Organic Syntheses. *Mr. Hansch.* Advanced preparations to supplement the laboratory work of Chemistry 111. Prerequisite: consent of instructor and Chemistry 110, 111. (110b and 111b may be taken concurrently.) Fee $7.50, deposit $5.00. 2 units. Second semester. Laboratory *Th, 1:15-4:05* and arranged period.

115. Biochemistry. *Staff.* Prerequisite: Chemistry 110a. 3 units. Second semester. Lectures *TThS, 9.*

158a, 158b. Physical Chemistry. *Mr. Smith.* Prerequisite: Chemistry 106, 110, Physics 51, Mathematics 65. Chemistry 110 may be taken concurrently. units. Lectures *TThS, 10.*

159. Physical Chemistry Laboratory. *Mr. Smith.* Prerequisite: Chemistry 158a, b (158b may be taken concurrently.) Fee $10.00, deposit $5.00. 3 units. Second semester. Laboratory *M, 2:15-5:10* and *TW, 1:15-4:05.*

181a, 181b. Use of Chemical Literature. *Staff.* Lectures and assigned problems on the methods for effective use of chemical literature. Prerequisite: Chemistry 110, German 1. 1 unit. Arranged.

184. Advanced Organic Chemistry. *Mr. Hansch.* A survey of organic reaction mechanisms. Prerequisite: Chemistry 110, 158a. 3 units. Second semester. Lectures *MWF, 9.*

185. Advanced Inorganic Chemistry. *Mr. Mooi.* The lectures will include discussion of atomic and molecular structure and such selected topics as coordination compounds, nuclear chemistry, and chemical statistics. Prerequisites: Chemistry 107, 110, 158 (may be taken concurrently). 3 units. First semester. Lectures *MWF, 9.*

187. Qualitative Organic Analysis. *Staff.* The use of intuitive methods for the identification of organic compounds. Prerequisite: Chemistry 106, 110, and reading knowledge of German. Fee $7.50, deposit $5.00. 3 units. First semester. Laboratory *W, 1:15-4:05,* plus at least two arranged periods.

199. Undergraduate Research. *Staff.* Seniors may take 6 units of research in Physical, Organic or Analytical Chemistry, under direction of a staff member. The work may be taken in one semester or extended over two. A thesis is required. Prerequisite, average of B in chemistry courses and consent of instructor. Fee $3.00 per unit, deposit $5.00. Each semester. Arranged.

C 171. Glassblowing. *Mr. Mooi.* Training is given in the fundamental operations involved in the construction of scientific glass apparatus (inner seals, metal to glass seals, construction of mercury vapor pump and McLeod gauge). Academic credit toward graduation is not given for this course but the registrant receives a recorded grade indicating the proficiency attained. Fee $7.50 plus cost of glass used. 2 units. Either semester. Laboratory arranged.

Classics

In the interest of providing a maximum offering in Classics, a coordinated program is offered by the departments of Pomona and Scripps College. A broad program is thereby assured to meet the needs of all students who desire training in Latin and Greek or in the literature of Classical Antiquity in translation. Mr. Carroll will gladly advise Pomona students regarding opportunities in this program, and will assist in developing programs of study which will meet basic requirements.

For concentration in Classical languages and literature a student is required to take at least 24 units in courses numbered over 100 in Greek and Latin languages and 12 units in modern European languages (French and German preferred). A selected reading list from Greek and Latin authors must be completed by the student in class work or outside reading to the satisfaction of the department. Additional courses in ancient and medieval history, philosophy, Continental and English literature, and modern European languages are recommended.

Greek

51a-51b. Elementary Greek. *Mr. Carroll.* A study of the principles of Greek grammar for beginning students. The course is designed to provide a firm foundation for the further study of the language and its literature. Simplified reading materials will be utilized as fully as possible. 3 units. *MWF, 8.* (Omitted in 1954-55, but offered at Scripps.)

101a, 101b. Intermediate Greek. *Mr. Carroll or Mr. Palmer (Scripps).* For students who have had Greek 51a-51b or equivalent. A reading course in Greek with selections from the Apology of Socrates, Homer's Odyssey, Euripides' Medea, the Greek New Testament and Church Fathers. 3 units. Arranged.

182a, 182b. Greek Readings and Composition. *Mr. Carroll or Mr. Palmer (Scripps).* A course for concentrators and those who have completed Greek 101 or equivalent. Additional readings in Greek literature with a thorough review of Greek rhetoric and grammar. Composition will be required but at a minimum. This course may be repeated for credit with the permission of the department. 3 units. Arranged.

Latin

1a-1b. Elementary Latin. *Mr. Carroll or Mr. Palmer (Scripps).* Latin grammar and syntax for students with no secondary school Latin. The aims and purposes of individual students enrolled will be particularly considered by the instructor in this course. Its general goal is to develop an ability to read Latin as quickly as possible, and to make use of that ability for a further understanding of the language. 3 units. *MWF, 8.*

57a, 57b. Intermediate Latin. *Mr. Carroll or Mr. Palmer (Scripps).* For students with one or two years of secondary school Latin, or Latin 1a-1b

elected readings from Sallust, Cicero, Virgil, Ovid, St. Augustine, and the ulgate Bible. Oral translation and discussions of grammar and syntax will be oordinated with lectures on the history of Latin literature. Emphasis will be n reading Latin as a living language. Attention will be given to the needs of he individual student in preparation of reading program. 3 units. Arranged.

17a, 117b. Roman Writers of the Republic. *Mr. Carroll or Mr. Palmer (Scripps).* A survey in Latin of the outstanding Roman writers in the second nd first centuries B.C. An intensive study of a single author will be made uring the second semester of the course. Open to all students who have had hree years or more of secondary school Latin or the equivalent. 3 units. rranged.

18a, 118b. Roman Writers of the Empire. *Mr. Carroll or Mr. Palmer (Scripps).* A survey in Latin of the outstanding Roman writers in the first nd second centuries A.D. An intensive study of a single author will be made uring the second semester of this course. Open to all students who have hree years or more of secondary school Latin or equivalent. 3 units. Arranged. Omitted in 1954-55.)

81a, 181b. Latin Readings and Composition. *Mr. Carroll or Mr. Palmer (Scripps).* A course for concentrators and those who have completed Latin 17 and 118 or equivalents. Selected passages of Latin will be read and analyzed n terms of Classical prose and poetic rhetoric and grammar. Translations from nglish into Latin will be regularly required. This course may be repeated for redit with the permission of the department. 3 units. Arranged.

Greek and Roman Literature in Translation

60a, 160b. Classical Epic, Drama and Prose in the Western Heritage. *Mr. Carroll.* A course in general education for all students desiring orientation in the culture of the Graeco-Roman world and its legacy to modern vilization. No previous training is required in Classical languages or Ancient istory. A broad program of lectures covering the salient phases of ancient e and art will be integrated with a reading program in translation including Homer, Vergil, the Classical dramatists, Thucydides, Tacitus, Aristotle nd St. Augustine. An effort will be made to trace the principal intellectual rrents of antiquity and to indicate their influence upon modern art, literature and society. 3 units. Arranged.

AVAILABLE AT SCRIPPS COLLEGE

106. Greek and Roman Comedy and Satire. *Mr. Palmer.* A course signed to cover in English translation the dramas of Aristophanes, Menander, Plautus, and Terence and the literature of the outstanding Greek and oman writers in the field of satire. Lectures will be given on the history of e development of the theatre, on the history of comedy and the mime, and the development of satire and satiric forms. Year course. Arranged.

107. Greek and Roman Tragedy. *Mr. Palmer.* A course designed to cover English translation the dramas of Aeschylus, Sophocles, Euripides and

Seneca. Lectures will be given on the history of the development of the theatre, on the history of tragedy, and on the development of the tragic form. 3 units. Arranged. (Omitted in 1954-55.)

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History of Greece. For description see History 101.

History of Rome. For description see History 102.

Ancient Art and Archaeology. For description see Art 55a, 55b.

Comparative Literature

Concentration in Continental Literature. Designed for students who are interested in European Literature.

Requirements: 24 units in courses numbered over 100. Twelve of these units must be in Continental Literature (in translation), twelve in European or classic literature in the original language. Electives in English literature and Classics 160a, b are strongly recommended.

181a, 181b. Readings in Continental Literature in Translation. *Mr. Baumann.* A study of outstanding works of Molière, Goethe, Stendhal, Balzac, Tolstoy, Dostoievsky, Mann and others (for Juniors and Seniors only). 3 units. May be repeated for credit. Arranged.

AVAILABLE AT SCRIPPS COLLEGE

I-152a, 152b. Comparative Literature. *Mr. Merlan.* Year course. *W, 4:15-6:05.*

Economics

A concentration program in Economics is suggested in general for those who wish to understand the nature and operation of the economic system in which they live and in particular for the student who contemplates a career in business, law, teaching, or research. Emphasis in the training is on sources of information and processes of analysis which are essential to leaders in the business and professional world.

Prerequisites: Economics 51 and 52 or equivalent, are prerequisites for all advanced courses in economics. A grade of C or better in both courses is required for concentration in the field.

Required courses: Economics 57, 71, 103, 104, 109, 110, and other courses in economics to bring the total of upper division courses to 24 units.

Recommended program for Pre-Business, Pre-Law, and Industrial Research and Management students: Economics 51, 52, 57 and 71 in the sophomore year, 103, 104, 109, 110 in the junior year, and 111, 198 or 199, and other courses in the field of the student's special interest during the senior year to bring the total of upper division courses in economics to 24 units.

Pre-Professional programs: Students planning to take graduate work in business administration or law should include courses in English writing and literature, speech, psychology, and philosophy in addition to courses in government, history, and sociology. Courses in mathematics and in one or more foreign languages are strongly recommended particularly for those intending to take graduate work in economics in preparation for a career in teaching or research.

Honors Study: A student who wishes to major in Economics and pursue an individualized program of honors study should confer with a member of the department during his sophomore or junior year.

Junior Transfers: Transfer students should consult with some member of the Economics staff with a view to adjusting their programs so as to achieve a satisfactory concentration.

Three-Year M.A. Program: Proximity and cooperation between Pomona College and the Claremont Graduate School make it conveniently possible for students so interested to plan, beginning with their junior year, a three-year program enabling them to earn both the B.A. and M.A. degrees. The work for the Master's degree may be taken in economics, business & public administration, or in political economy.

In addition, the Claremont Summer Session, sponsored jointly by the four Associated Colleges in Claremont, makes it feasible for those desiring to continue their academic work throughout the year *either* to accelerate their programs *or* to enroll for courses in education that would enable them, within the three year period, also to obtain certificates for teaching in the high schools or junior colleges of California. Any student interested in pursuing such a program is invited to confer with the Department.

AMERICAN ECONOMIC AND POLITICAL INSTITUTIONS

Pomona College believes that its graduates should be familiar with the economic and political foundations of American life. To this end the Departments of Economics and Government have organized a year course in American economic and political institutions through which students who cannot take a full year in each subject may nevertheless gain some understanding of both fields. This course combines a semester's study of economics with another semester devoted to American Government and the formal classwork is supplemented by a series of special lectures which all students are expected to attend. These lectures (which are open to other students and faculty as well) are designed to present the insights of persons who have had practical experience in business and government and the speakers are chosen from leaders in government, industry, finance, labor and law.

That part of the course pertaining to economic institutions (Economics 51) is offered only during the fall term and that pertaining to politics (Government 52) only in the spring but students may begin the course at whichever time best suits their schedules. The combined course may be offered in fulfillment of one of the requirements for distribution in the lower division. For outline of contents and time schedule see regular course descriptions under the respective departments.

ECONOMICS

51. Economic Analysis. *Staff.* An introduction to modern economic society with emphasis on the nature and operation of the American economy. Includes: competitive versus authoritative control; population problems; conservation of resources; forms of business organization; balance sheet and income statement; securities and speculation; money and banking; inflation and deflation; the level of production, income, and employment. Open to freshmen with special permission only. 3 units. First semester. *MWF, 8, 9, 10; TThS, 9, 10;* for those continuing second semester with Government 52, *MWF, 11; TThS, 8.*

52. Economic Problems and Policies. *Staff.* A continuation of Economics 51 with emphasis on current problems and related public policies. Includes: price analysis; distribution of income; antitrust policy; public utility regulation; agricultural policy; labor problems; taxation and fiscal policy; international trade and finance; and socialist theory and practice. Prerequisite: Economics 51. 3 units. Second semester. *MWF, 9, 10; TThS, 9, 10.*

57. Statistics for the Social Sciences. *Staff.* A course in the application of quantitative method to economic and social problems with emphasis on the interpretation of the results obtained. Frequency series and time series analysis, elementary sampling, simple correlation, and index numbers. (Credit will not be given for both Economics 57 and Psychology 102.) 3 units. Second semester. *TTh, 8;* laboratory, *T* or *W, 1:15-3:05.*

71. Elementary Enterprise Accounting. *Mr. Rostvold.* The theory and practice of accounting in the merchandising business firm. Corporation, partnership, and individual proprietorship accounting. 4 units. First semester. *MWF, 8;* laboratory, *Th* or *F, 1:15-3:05.*

72. Elementary Cost Accounting. *Mr. Rostvold.* The theory and method of accounting in the manufacturing business unit. Emphasis on job-order, process, and standard cost systems. Prerequisite: Economics 71 or equivalent. 4 units. Second semester. *MWF, 8; laboratory, Th* or *F, 1:15-3:05.*

ADVANCED COURSES

Economics 51 and 52 or equivalent are prerequisites for all advanced courses in Economics.

103. Money and Banking. *Mr. Cook.* Principles of money, credit, and banking interpreted in the light of the institutions and financial organization designed to supply society with adequate media of exchange. The relation of money, income, and prices, and the problems of monetary management and fiscal policy. 3 units. First semester. *TThS, 10.*

104. Economic Theory and Business Policy. *Mr. Perry.* A study of the organization of economic activity through markets and prices with emphasis on the analytical method in economics; resource use and income division in markets containing various mixtures of competition and monopoly; the

relationship between economic analysis and business practice. 3 units. First semester. *MWF, 10.*

107. Development of the American Economy. *Mr. Perry.* A survey of the economic history of the United States. Emphasis is placed on the distinctive factors involved in the growth of the American economy including resources, technological developments, and the cultural milieu. 3 units. First semester. *MWF, 9.*

109. National Income. *Mr. Rostvold.* A study of national income concepts and their measurement, the determinants of the level of national income and employment, and the general features and causes of fluctuations in economic activity. 3 units. Second semester. *TThS, 10.*

110. Industrial Competition and Public Policy. *Mr. Cook.* A study of the basic American policy of maintaining competition to control economic behavior. Corporations, combinations, trade practices, and industrial cooperation; analysis and court interpretation of laws dealing with restraint of trade, monopolizing, unfair competitive methods, discrimination, false advertising, and fair trading; the Antitrust Division and the Federal Trade Commission. 3 units. Second semester. *MWF, 10.*

111. Labor Economics. *Mr. Perry.* An examination of the tools of economic analysis as applied to problems of labor. A brief history of organized labor is followed by an analysis of wage policies, labor productivity, collective bargaining, minimum wage legislation, labor monopoly, social security, and current labor legislation. 3 units. Second semester. *MWF, 9.*

120. Public Utility Economics. *Mr. Rostvold.* An historical and analytical study of public utility problems in the United States. Illustrative material is drawn from the various utility industries with emphasis on the economics of overhead costs, and the economic and legal problems involved in the various types of regulation. 3 units. First semester. (Omitted in 1954-55.) *MWF, 10.*

154. International Trade. *Mr. Child.* An analysis of the mechanism, organization, and effects of international trade. Special attention is given to economic problems and policies of nations participating in international trade. Prerequisite: Economics 104. 3 units. First semester. *TThS, 9.*

155. International Finance. *Mr. Child.* An analysis of international monetary relationships with emphasis on the problems and policies associated with these relationships. Prerequisite: Economics 103. 3 units. Second semester. *TThS, 9.*

158. Applied Statistics. *Staff.* A review of the basic concepts covered in Economics 57 followed by a study of the methods currently used in market research, quality control, and public opinion pooling. Designing the sample, questionnaire construction, training interviewers, variance analysis, partial and multiple correlation. 3 units. First semester. (Omitted in 1954-55.) *TThS, 9.*

189. Public Finance. *Mr. Rostvold.* An analysis and evaluation of the effe of current governmental taxing, spending, borrowing, and debt manageme policies on the American economy. 3 units. First semester. *M, 2:15-3:05* a *W, 1:15-3:05.*

190. History of Economic Thought. *Mr. Perry.* A survey of the develo ment of economic science and policy from the forerunners of the classi school to the present date with emphasis on those aspects of economic doctri which contribute most to an understanding of the present status of the fie of economics. 3 units. Second semester. *T, 7:30-10:00 p.m.*

191. Monetary Theory and Policy. *Mr. Cook.* The interrelationships money, income, and prices, with emphasis on the theory of output as a wh and policies designed to maintain high level employment without inflati Prerequisites: Economics 103, 104, and 109, or equivalent. 3 units. Seco semester. *T, 7:30-10:00 p.m.*

195. Comparative Economic Systems. *Staff.* A comparison of economic organizations of leading nations with special emphasis on the Uni States and the Soviet Union. 3 units. First semester. *MWF, 2:15.* (Omit in 1954-55.)

198. Introduction to Research. *Mr. Perry.* Supervised advanced study selected fields of economics. Each student will pursue an individual resea project which will provide the basis for oral reports, group discussion, a a final written research report. Open to qualified seniors with the permissi of instructor. 3 units. Second semester. *MWF, 11.*

199. Readings in Economics. *Mr. Bond.* Senior seminar devoted to the st of current economic problems and policies with emphasis on sources of inf mation and the use of tools acquired in earlier courses. Selected readings, o reports, written exercises. Open to qualified seniors with permission of instr tor. 3 units. First semester. *MWF, 11.* (Omitted in 1954-55.)

Business Law. For description, see Government 106.

AVAILABLE AT CLAREMONT MEN'S COLLEGE

Intermediate Accounting. *Mr. Gibbs.* 3 units. First semester.

Accounting for Business Control. *Mr. Gibbs.* 3 units. Second semester.

Tax Accounting. *Mr. Briggs.* 3 units. Second semester.

Foreign Trade. *Mr. DeHaas.* 3 units. Second semester.

Corporation Finance. *Mr. Taylor.* 3 units. First semester.

Personnel Administration. *Mr. Phelps.* 3 units. First semester.

AVAILABLE AT CLAREMONT GRADUATE SCHOOL

Open to qualified seniors with the permission of the chairman of department and the instructor of the graduate seminar. For other gradu courses, consult the catalog of The Claremont Graduate School.

06. Monetary Theory and Policy. *Mr. Cook.* 4 units. Second semester. *, 7:30-10:00 p.m.*

18. History of Economic Thought. *Mr. Perry.* 4 units. *T, 7:30-10:00 p.m.*

Education

he courses in Education in Pomona College are designed to supply the eneral background that an intelligent citizen should have regarding one of ir important social institutions and at the same time to prepare a prospective acher or administrator for the more technical training given in the Clare- ont Graduate School or in some other graduate institution. All students con- dering teaching as a career should study the section on "Teaching and ducational Administration" on page 90.

equirements for concentration: 24 units of work in courses numbered over 0, as prescribed below.

Prerequisite courses: Education 53a, 53b; Psychology 51a-b; Economics 51; overnment 52; Sociology 51. *Required courses:* Education 104, 105, 151, 190; ociology 106, 109 or 112; Psychology 107 and 108; Government 103. Courses yond the concentration will vary with the individual student but the program ould include further work in psychology and sociology as well as some ntact with such fields as: art, English, geography, history, life sciences, music, ysical education, and speech. Students anticipating teaching in Southern alifornia are urged to acquire some familiarity with the Spanish language.

a, 53b. Introduction to Education. *Mr. Lee.* The basic course in Educa- n, designed for those who desire an understanding of the place and nction of education in America today. 53a deals with the basic philosophy of ucation in a democracy and with the organization and operation of American ucation. 53b attempts to survey the educational impact of certain social forces tside the school and to examine some of the major problems confronting ntemporary American education. While the listed order is preferable, the o halves of the course may be taken in either order. 3 units. *MWF, 8.*

4. History of Education: European and Comparative. *Mr. Lee.* A dy and appraisal of the European roots of contemporary American educa- nal traditions and practices, with some attention to the contemporary edu- ional policies and practices in foreign countries. History 1 and 55 or uivalent and Education 53 recommended as preparation. 3 units. First nester. *MWF, 10.*

5. History of Education: United States. *Mr. Lee.* A study of the owth and evolution of education in the United States. Stress is placed upon : intellectual, social, and economic forces which shaped educational develop- nts. History 1 and 55 or equivalent and Education 53 and 104 recom- nded as preparation. 3 units. Second semester. *MWF, 10.*

151. Introduction to the Philosophy of Education. *Mr. Lee.* A study o the major philosophical approaches to contemporary American educatior Both the contributions of historical philosophies and contemporary develop ments in educational thought will be examined. An attempt to answer th question: What kind of education for modern America? 3 units. Firs semester. *TThS, 8.*

190. Comprehensive Seminar in Education. *Mr. Lee.* A seminar for senior concentrating in education, designed to synthesize and supplement the severa courses required for the major, to prepare for the comprehensive examinatio and for graduate professional study. Selected educational problems will b considered through independent research, observation, and discussion. 3 unit Second semester. *W, 2:15* and arranged.

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A wide range of graduate work in Education leading to the various creden tials as well as to the degree of Master of Arts is offered under the auspices o the Claremont Graduate School.

English

English 1 or its equivalent is prerequisite for all other departmental courses English 50 and History 1 are required of all students intending to concentrat in the Department of English.

A reading knowledge of at least one language and literature other tha English, as well as high school preparation in Latin, is strongly recommended In most graduate schools, candidates for the degree of Doctor of Philosoph are required to have a reading knowledge of *two* foreign languages.

Electives should be chosen, in consultation with the adviser, from course in Speech and Dramatics, foreign literature, the history of England, th history of philosophy, and (especially for students interested in writing) elementary applied art.

Transfer students may offer equivalent courses pursued at other colleges i fulfillment of these requirements and recommendations.

concentration with emphasis on literature

Students who are concentrating in literature must choose from each of th four groups below at least the number of units specified. (Beginning in 1954 English 115 must be taken in the first semester of the Junior year.)

Group I (6 units): English 153 *or* 154 *or* 155 *or* 156.

Group II (9 units): English 101 *or* 102 *or* 103 *or* 104 *or* 107.

Group III (6 units): English 105 *or* 192 *or* 193.

Group IV (6 units): English 115 *and* 195.

concentration with emphasis on writing

The following pattern of courses must be completed, for a total of at leas 27 units, by students concentrating in writing.

1. Upper-division courses in composition (111, 151; Speech and Dramatics 12): 6 to 12 units. Note that certain courses in composition may be repeated or credit under proper conditions.

2. English 153 *or* 154 *or* 155 *or* 156: 6 units.

3. English 101 *or* 102 *or* 103 *or* 104 *or* 105: 9 units.

4. English 192 *and* 193: 6 units.

A course in elementary applied art, taken in the Freshman or Sophomore ear, is strongly recommended to students who intend to concentrate with n emphasis on writing.

A brief reading list, designed to acquaint students with the major figures in terature, will supplement course assignments in the programs of concentra- on. The books on this list, many of which will already have been read in ourse, will be included in the comprehensive examination.

For the CONCENTRATION IN LITERATURE AND PHILOSOPHY see the description nder "Philosophy."

Information concerning Honors programs and projected graduate work in nglish may be had from the Departmental Staff.

a, 1b. ENGLISH: AN INTRODUCTORY COURSE. *Departmental Staff.* A brief eview of the fundamentals of composition; instruction and practice in riting; reading and study of a few important literary types. Normally rerequisite for all other departmental courses. Students with marked eficiencies in the use of English may be required to meet for a fourth hour arranged). 3 units. Section meetings *MWF, 8, 9; TThS, 8, 9.* Section of 1b rst semester for specially qualified students *TThS, 9.*

a, 50b. GREAT AUTHORS. *Mrs. Jordan, Mr. Davis, Mr. Holmes, Mr. Frazer, r. Fussell.* An historical and critical study of several great writers, the major eriods, and the dominant forms of literature in English. First semester: haucer, Milton, readings in the sixteenth and seventeenth-century lyric, lected plays, and essays in criticism. Second semester: the Augustan Age, adings in the nineteenth-century lyric, selected novels and critical essays, d contemporary poets. No student will be admitted to the second semester the course who has not completed English 50a or an equivalent. 3 units. *WF, 11; TThS, 9, 10.*

. INTRODUCTION TO POETRY. *Mr. Holmes.* A study of the principal aims d techniques of poetry. Readings in a wide variety of poetic types. 3 units. cond semester. *MWF, 10.*

. INTRODUCTION TO DRAMA. *Mr. Kocher.* Great plays of various periods m the classic Greek to the present day; as extensive reading as time will rmit. 3 units. First semester. *MWF, 10.*

. INTRODUCTION TO PROSE FICTION. *Mr. Frazer, Mr. Beatty.* A general rvey of important works in prose fiction with emphasis upon selected vels—English, American, and continental—from the eighteenth century to e present. 3 units. First semester: *TThS, 10.* Second semester: *TThS, 9.*

60. News Writing. *Mr. Overaker.* The writing and presentation of new with special emphasis on daily newspaper practices. A study of ways in whic news writing may be used in various occupations. News story assignments an discussions. Enrollment limited to 25 students. 3 units. First semester. *TTh,* and third hour arranged.

63. Expository Writing. *Mr. Strathmann, Mr. Frazer.* A course in the prin cipal methods used in explaining processes, theories, and the results of specia investigations. The course is designed to meet the needs of the student wh wishes further practice in expository writing, especially the student who i preparing for a career in business or one of the professions, such as law, medi cine, or scientific research. Enrollment limited to 25 students. 3 units. Firs semester: *MWF, 11.* Second semester: *T, 1:15-3:05,* and *Th, 1:15.*

64. Narrative and Descriptive Writing. *Mr. Weismiller, Mr. Mulhauser* A course for students who, having shown some ability as writers in English or its equivalent, wish to continue with the basic creative problems of narra tion and description. Laboratory exercises, assigned problems, and discussion This course is a prerequisite for English 111 and 151. Enrollment limited t 25 students each semester; if the registration for the course exceeds tha number, the selection of the students to take the course will be made afte the first class meeting. In exceptional circumstances, the course may b repeated for credit by permission of the instructor. 3 units. First semester *TThS, 9.* Second semester: *TThS, 10.*

ADVANCED COURSES

English 1 or an equivalent is prerequisite for all advanced courses i English.

101a, 101b. The Renaissance in England. *Mr. Strathmann.* English litera ture of the Renaissance, chiefly non-dramatic, with emphasis upon Renaissanc thought and the development of English literary forms. In the first semeste the principal writer studied is Spenser; in the second semester, Milton. 3 unit *MWF, 9.* (English 101b will be omitted in 1954-55.)

102. The Age of Swift and Pope. *Mr. Bracher.* A survey of the literatur of the Restoration and early eighteenth century. Main topics: the drama fro the Restoration to 1731; neo-classic literary theory; Dryden, Swift, Pope, an their associates. 3 units. Second semester. *MWF, 2:15.* (Alternates with 103.

103. The Age of Johnson. *Mr. Bracher.* A survey of the literature of th later eighteenth century. Main topics: the beginning of the novel, pr romantic poetry, Dr. Johnson and his circle. 3 units. Second semester. *MW 2:15.* (Offered in alternate years; not offered in 1954-55.)

104a, 104b. Literature of the Nineteenth Century. *Mr. Chew.* An inte sive study of the major poets and prose-writers of the period, with emphas on literature as (1) an artistic expression of the life, emotions, and ideas the individual writer, and as (2) a reflection of the important, intellectua

storical, and literary movements of the century. First semester, writers of e Romantic period; second semester, writers of the Victorian period. 3 units. *ThS, 9.*

5a, 105b. American Literature. *Mrs. Jordan, Mr. Holmes.* An intensive idy of the great American writers of the nineteenth century, with emphasis on the development of a national literary culture. First semester: Edwards, ving, Cooper, Poe, Emerson, Thoreau, and Hawthorne. Second semester: elville, Whitman, Dickinson, Mark Twain, Henry James, E. A. Robinson, d Dreiser. 3 units. *TThS, 10.*

7. Tudor and Stuart Drama. *Mr. Chew.* A study of the development the drama and of the plays of principal dramatists other than Shakespeare om 1500 to 1642. 3 units. Second semester. *MWF, 9.*

1. The Short Story. *Mr. Frazer.* Practice in the writing of short stories d sketches. Consideration of the critical principles of the short story and ticism of both student and professional work. (A student who has com-ted both English 111 and English 151 may repeat one of these courses credit.) Enrollment limited to 25 students. Prerequisite: English 64 and rmission of the instructor. 3 units. First semester. *T, 1:15-3:05,* and *Th, 1:15.*

5. Literary Criticism. *Mr. Fussell, Mr. Holmes, Mr. Mulhauser.* Reading important documents of literary criticism; application of critical principles d techniques to selected literary works. 3 units. First semester. Three tions: *W, 2:15-4:05; F, 2:15.*

1. Creative Writing. *Mr. Weismiller.* Supervised practice in the forms creative writing, selected according to the needs and abilities of the stu-nts enrolled in the course. (A student who has completed both English 111 d English 151 may repeat one of these courses for credit.) Enrollment nited to 25 students. Prerequisites: English 64 and permission of the tructor. 3 units. Second semester. *T, 1:15-3:05,* and *Th, 1:15.*

3. Chaucer. *Mr. Davis.* A study of Chaucer as the outstanding narrative d dramatic poet of the transition from the medieval to the modern world. nits. Second semester. *MWF, 10.* (Alternates with 156; not offered in 4-55.)

. The English Language. *Mr. Bracher.* A survey of the English language m its origins to the present. Semantic theory and principles of linguistic nge, as an aid to the understanding of modern English. Especially recom-nded to prospective teachers. 3 units. First semester. *MWF, 10.*

a, 155b. Shakespeare. *Mr. Davis.* A study of the principal plays and of kespeare's career as a dramatist, with attention to the working conditions the Elizabethan stage and collateral reading in dramatists contemporary h Shakespeare. First semester, mainly comedies and histories; second mester, mainly tragedies. 3 units. *MWF, 11.*

156. Milton. *Mr. Weismiller.* A study of the poems and selected pro works, emphasizing the literary and intellectual background of Milton's wo and his importance to the poetic tradition of the English-speaking people 3 units. First semester. *MWF, 9.* (Alternates with 153; not offered in 1955-56

192. Contemporary Novelists. *Mr. Mulhauser.* A study of the novels James, Lawrence, Joyce, Woolf, Hemingway and Faulkner, with empha upon the principles of narrative art and the philosophical points of view these novelists. 3 units. First semester. *MWF, 10.*

193. Contemporary Poets. *Mr. Weismiller.* Poets of the twentieth centur Gerard Manley Hopkins to the present, studied in the light of the gre poetic tradition. 3 units. Second semester. *MWF, 10.*

195. Readings in English Literature. *Mr. Davis, Mr. Fussell.* A semin open to seniors concentrating in English. Lectures, readings, and repo directed toward a synthesis, on the student's part, of his work in Englis 3 units. Second semester. Two sections: *T, 3:15; Th, 2:15-4:05.*

196. Problems of Writing. *Mr. Weismiller.* A specialized course in a vanced composition; group and individual conferences. Prerequisites: Engli 64, 111 and 151 and permission of instructor. 1 or 2 units. Second semest one hour a week. Arranged.

197. Directed Reading. *Departmental Staff.* Seniors concentrating in En lish may enroll for individually planned reading programs, usually suppl mentary to advanced courses. Prerequisites: a grade point average in Engli of 3.4 or better; permission of the instructor and the departmental chairma Enrollment may be repeated. 3 units. Each semester. Arranged.

Character Presentation in Dramatic Literature. For description s Speech and Dramatics 61a, 61b.

Playwriting. For description see Speech and Dramatics 112a-112b.

AVAILABLE AT SCRIPPS COLLEGE

I-100. Mark Twain's America. *Mr. Foster.* Second semester. *MWF, 11.*

I-116a, b. Shakespeare. *Mr. Fogle.* Year course. *MW, 3:15-4:30.* Credit w not be given for both I-116 and 155.

I-144. The Romantic Poets. *Mr. Armour.* Year course. *MWF, 8.* Cred will not be given for both I-144 and English 104a.

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The opportunity for graduate work in English provided in the Claremo Graduate School is quite extensive. The student who desires to go in graduate study is advised to plan his whole course from at least as early his junior undergraduate year.

Geology

eology 1 and 2 make up an introductory survey course, designed for the on-technical student. This course is also a prerequisite for most of the more lvanced work in the department. The other courses are designed for persons tending to specialize in geology or a related science.

A student concentrating in geology should include courses 1, 2, 59, 102, 0, 112, 181, 182, an approved summer field course, and either 107 or 151. equired in other departments: Mathematics 1, 65; Physics 51; Chemistry 1, d a reading knowledge of German, French or Spanish (German preferred). e-Engineering 7 and 40 are desirable. In exceptional cases courses in biology ay be substituted for those in physics and chemistry. Rarely the requirement a summer field course is waived.

Seniors graduating in geology must write an acceptable thesis based on rk done in Geology 181, 182.

-1b. Introduction to Geology. *Mr. McIntyre.* A survey of geologic prin-les and processes, and of earth history. Must be accompanied by Geology 2. nits. *MWF, 10.*

2b. Laboratory and Field Trips Supplementing Geology 1a-1b. *Staff.* en to students who are taking or have taken Geology 1 or its equivalent. erequisite for all more advanced courses in geology except 59. Fee $3.00 h semester. 1 unit. *M, W* or *Th, 1:15-4:05.*

. Mineralogy, Including Crystallography. *Mr. Woodford.* Prerequisite: h school chemistry or equivalent. Two class and two laboratory periods. boratory fee $4.00. 4 units. First semester. Class *WF, 11,* laboratory *T* and *1:15-4:05.*

. Elementary Field Geology. *Mr. McIntyre.* Field methods; geologic pping; spring recess trip; writing of geologic reports. Prerequisite: Geology , completed or in progress. Desirable, Geology 112. Second semester. nits. Arranged.

. Field Geology. *The Staff.* A summer field course in geologic pping. Prerequisite: Geology 102 and 110. 6 units.

a-107b. Invertebrate Paleontology. *Mr. Woodford.* Prerequisite: ology 1 and 2. Two class and one laboratory periods first semester; one s and two laboratory periods second semester. Laboratory fee $6.00 each ester. 3 units. Class *MW, 10;* laboratory, arranged.

. Petrology. *Mr. Woodford.* The study of rocks without the aid of a arizing microscope. Prerequisite: Geology 1, 2 and 59. Laboratory fee $4.00. o class and two laboratory periods. 4 units. Second semester. *WF, 11;* oratory *T* and *F, 1:15-4:05.*

. Structural Geology. *Mr. McIntyre.* Structural features of sedimentary, ous and metamorphic rocks; deformation of the earth's crust; practice in

laboratory methods dealing with geological problems in three dimensior Prerequisite: Geology 110. Laboratory fee $4.00. Two class and one laborato periods. 3 units. First semester. *TTh 10;* laboratory arranged.

151a-151b. Petrography. *Mr. Woodford.* The optical properties of crystal study of minerals and rocks with the petrographic microscope. Two class ar one laboratory periods first semester; one class and two laboratory perio second semester. Prerequisite: Geology 110. Laboratory fee $5.00 first semeste $8.00 second semester. 3 units. Arranged.

181, 182. Geological Investigation and Research. *Staff.* Laboratory f $4.00 each semester. 3 units. Arranged.

AVAILABLE AT CLAREMONT GRADUATE SCHOOL

203. Regional Geology. Open to qualified undergraduate students who ha obtained the consent of the instructor in charge.

German

A program of concentration in German consists of a minimum of 18 units i courses numbered above 100 and 6 additional units in German or in a relate field selected according to the student's needs and interests. Special progran for students interested in German Literature, translation, library work, post graduate work in German can be had from the department.

1a-1b. Elementary German. *Miss Wagner.* The acquirement of a sma working vocabulary. Constant ear-training, and as much practice in speakir as time permits. Daily exercises in reading and writing. The essentials grammar. Etymology. Comment on German life. 3 units. *MWF, 10, 1 TThS, 10.*

53a-53b. Advanced German. *Mr. Baumann.* More advanced German la guage study through intensive reading of selected German works, wi collateral reading in the field of the student's individual interest—literar social, or scientific. Continued practice in German conversation. Some atte tion to an understanding of the cultural life of Germany, Austria, an Switzerland. Prerequisite: German 1 or an equivalent. 3 units. *MWF, TThS, 9.*

102a, 102b. Advanced Conversation, Readings and Translation. *Mi Wagner.* Intensive critical readings of masterpieces of the eighteenth an nineteenth centuries. Drill in written and oral expression. This course also designed for those interested in translating and summarizing in Englis reports given in German. Prerequisite: German 53 or equivalent. 3 unit *MWF, 9.*

109a, 109b. German Literature of the Nineteenth Century. *Mi Wagner.* With special reference to the cultural, economic and politic

istory of Germany. Discussion and papers. Prerequisite: German 53 or quivalent. 3 units. *TThS, 9.*

13a, 113b. GERMAN CLASSICS OF THE EIGHTEENTH CENTURY. *Miss Wagner.* study of the outstanding works and personalities of the period with rticular attention to the social and political life of Germany. Prerequisite: erman 53 or equivalent. 3 units. *TThS, 9.* (Omitted in 1954-55.)

58a, 158b. MODERN GERMAN LITERATURE. *Mr. Baumann.* The development German Literature from 1880 to the present with reference to the political id social changes during that period. 3 units. Second semester. Arranged. Omitted in 1954-55.)

60a, 160b. SURVEY OF GERMAN LITERATURE. *Mr. Baumann.* The develop- ent of German Literature from earliest times to the present. 3 units. rranged.

Government

addition to preparation for more effective citizenship, concentration in Gov- nment is suggested for students planning careers in law, teaching, journalism, search, public relations, civil service or the foreign service. The department ll gladly advise students regarding opportunities in these fields and will sist in developing programs of study designed to meet basic requirements.

General Requirement: Government 51 and 52 are normally prerequisite r all other courses in the Department. Exceptions should be cleared with the partmental staff.

Lower Division Prerequisites for Concentration: The following courses ould be completed by the end of Sophomore year: History 1; Government 51, 2; Economics 51, 52. The introductory course in Sociology is strongly recom- nded and also the elementary course in statistics and a semester of accounting.

Program of Concentration: A minimum of 24 upper division units in overnment, including in each case Government 104, 125, 154, 157, 182, 13, and 6 upper division units from one of these fields: Economics, History, Sociology. These combinations are especially recommended: in Economics 13 and 189 or 104 and 110; in History 107a, b, 113a, b; Sociology 102 and 11. Each student's program shall be arranged in consultation with the partmental staff. A reading and speaking knowledge of at least one modern reign language is strongly advised, particularly for students having any intention whatever of seeking positions in foreign service or foreign trade or of gaging in graduate study.

unior Transfers: Students transferring to Pomona at the beginning of th Junior year are eligible to concentrate in Government, provided the prerequisites are met before entrance or can be met during the Junior year.

Three Year M.A. Program: Proximity and cooperation between Pomon College and the Claremont Graduate School make it conveniently possibl for students so interested to plan, beginning with their junior year, a three year program enabling them to earn both the B.A. and M.A. degrees. I addition, the Claremont Summer Session, sponsored jointly by the fou Associated Colleges in Claremont, makes it feasible for those desiring t continue their academic work throughout the year *either* to accelerate thei programs *or* to enroll for courses in education that would enable them within the three year period, also to obtain certificates for teaching in th high schools or junior colleges of California. Any student interested i pursuing such a program is invited to confer with the Department.

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INTERNATIONAL RELATIONS

For Concentration Program in this area see p. 80.

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AMERICAN ECONOMIC AND POLITICAL INSTITUTIONS

Pomona College believes that its graduates should be familiar with the ec nomic and political foundations of American life. To this end the Department of Economics and Government have organized a year course in America economic and political institutions through which students who cannot tak a full year in each subject may nevertheless gain some understanding of bot fields. This course combines a semester's study of economics with anothe semester devoted to American Government and the formal classwork is sup plemented by a series of special lectures which all students are expected t attend. These lectures (which are open to other students and faculty as well are designed to present the insights of persons who have had practical exper ence in business and government and the speakers are chosen from leaders i government, industry, finance, labor and law.

That part of the course pertaining to economic institutions (Economics 51 is offered only during the fall term and that pertaining to politics (Governmen 52) only in the spring but students may begin the course at whichever time bes suits their schedules. The combined course may be offered in fulfillment of on of the requirements for distribution in the lower division. For outline c contents and time schedule see regular course descriptions under the respectiv departments.

GOVERNMENT

Government 51. Introduction to Political Science. *Staff.* The aims of th course are to survey principles, processes and institutions which are essentia for a mature understanding of the problem of government in the moder world; to take note of the mutual interdependence of the several social science and to describe the use of objective methods in political analysis. 3 units. Fir semester. *MWF, 8, 9, 10; TThS, 8, 10.*

Government 52. American Government. *Staff.* A study of the America system of constitutional government, mainly on the national level but wit

me attention to the powers and functions of states, counties, and cities. mphasis is given to the U. S. Constitution, democracy, federalism, and the nctions of Congress, the Executive Branch and the Federal Courts. May be mbined with Economics 51 to enable students who cannot devote more than x hours to the two fields to do some basic work in each. 3 units. Second mester. *MWF, 8, 9, 10, 11; TThS, 8, 10.*

Advanced Courses

Government 51 and 52 together comprise the foundation course in govern-ent and are normally prerequisites for all advanced courses. Exceptions ould be cleared with the departmental staff. Required of all majors in govern-ent or international relations.

3. State and Local Problems. *Mr. Vieg.* An examination of trends d problems, both political and administrative, in state and local govern-ent, with particular reference to California. Special attention given to eds of students interested in education and municipal management. 3 its. Second semester. *M, 2:15* and *W, 1:15-3:05* or arranged.

4. Principles of Administration. *Mr. Vieg.* A study of the forms and des of responsible administration in American government including the ory and practice of organization, fiscal and personnel management, asurement of administrative efficiency, public relations and comparisons th business management. 3 units. Second semester. *MWF, 8.*

5. Introduction to Law. *Mr. Lee.* The nature of law, public and private, th emphasis upon cases and materials illustrating the development of Anglo-nerican institutions. Some attention to theories of law or jurisprudence. A ckground for the professional study of law. 3 units. First semester. (Alter-tes with 106, Business Law. Omitted in 1954-55.)

6. Business Law. *Mr. Lee.* A survey of the law of contracts, agency, sales, gotiable instruments and other matters normally arising in the course of siness. 3 units. First semester. (Alternates with 105. To be given next in 55-56.)

). Fundamentals of International Relations. *Mr. Olson.* Historical ckground and contemporary economic and political determinants of national wer and policy. Influence of geo-strategic, ideological, cultural and tech-ogical considerations upon diplomacy. Examination of approaches to world ler, e.g., imperialism, the balance of power, international law and organiza-n. Basic literature and methodology of the field. 3 units. First semester. *WF, 10.*

;. Modern Democracies. *Mr. Vieg.* Comparative analysis of political forces l governmental institutions in Great Britain, France, German Federal public and several other states, with somewhat more emphasis on structure n theory. Attention will be given to the movement for European integra-n and other emergent democratic forms. 3 units. First semester. *MWF, 9.*

126. Modern Totalitarianism: U.S.S.R. *Mr. Olson.* The ideological found tions and politico-economic development of the Soviet Union since 191 Internal and external role of the Communist Party. Objectives and technique of Russian diplomacy, including control of satellite areas. Comparisons wit other forms of modern despotism. (May be combined with History 114 t constitute a year's work in Russian history.) 3 units. Second semester. *MWF,*

154. American Constitutional Law. *The Staff.* An analytical and hi torical examination of the nature and extent of constitutional power in th United States. The separation of powers doctrine; federal-state relations; th powers of Congress and the President; constitutional guarantees of the right of individuals; suffrage, citizenship, and the civil liberties—religion, speec and press. Principal emphasis will be placed on Supreme Court cases. 3 unit Second semester. *TThS, 10.*

157. Parties and Pressure Groups. *Mr. Vieg.* A study of the role of pa ties and pressure groups in democratic government, the nature of the America party-lobby system, party platforms and leaders, tactics of pressure group and the problem of civic indifference. 3 units. First semester. *MWF, 8.*

159. The Electoral Process: Theory and Practice. *Mr. Vieg.* Intensiv study of political behavior combining theoretical analysis of electoral problem with field observation of practical politics offering students limited opportunit to serve as participant-observers in actual campaigns for public office. Weekl conferences with systematic written reports. Primarily for concentrators bu open to others with permission of instructor. 3 units. First semester. Arrange (To be offered again during the second semester, 1955-56 and the fir semester, 1956-57.)

160. Administration: Process and Practice. *Mr. Vieg.* Pro-seminar o administrative theory combined with direct observation of governmenta operations and conferences with administrative officials regarding manag ment of public business. Individual projects and reports. Primarily fo concentrators but open to others with permission of instructor. 3 units. Secon semester. Arranged. (To be offered again during the first semester, 1955-56 an the second semester, 1956-57.)

161, 162. Readings and Research in Government. *Staff.* Reading program for students capable of independent study in fields of special interest no included within the scope of regular courses including, when opportunit offers, research in nearby governmental agencies. Each program must b approved in advance by some member of the Departmental staff. 2 or 3 unit Arranged.

165. Foreign Relations of the United States. *Mr. Olson.* The Constitu tional framework. Role and relationship of the several Executive agencies, Congress and its relevant committees, and of public opinion in the policy making process. Problems of American diplomacy since the Revolution bu with principal emphasis upon developments since the emergence of the U. S as a Great Power. 3 units. First semester. *TThS, 9.*

69. Contemporary International Problems. *Mr. Olson.* A seminar stressing the inter-disciplinary nature of the study of international relations by obliging the student to utilize, in the analysis of current situations, his knowledge of economic, historical, political and other factors. Primarily for senior concentrators in international relations but open to others by permission of the instructor. 3 units. Second semester. *F, 1:15-4:05.*

80. Social Institutions and Social Theory. *Mr. McDonald.* An inquiry into the nature of the social sciences and a search for their common elements. Some theoretical and empirical contributions of the several social sciences as they approach selected institutional phenomena: the peer-group and the political group; the church and the school; the corporation and the labor union; the family and the community. A senior seminar intended primarily for concentrators in the interdepartmental Modern Social Institutions program. Others admitted by permission of the instructor. Second semester. *TThS, 9.*

82. Political Methodology and Political Theory (Ancient and Medieval). *Mr. McDonald.* Part I: A review of the scope and aims of contemporary political science; the theory, practice, and limitations of empirical research in politics. Part II: a study of political theories from Plato to Dante. 3 units. First semester. *MWF, 11.*

83. Modern Political Theory. *Mr. McDonald.* A study of political theories from Machiavelli to the present. Government 182 and 183 are open only to seniors, except by permission of the instructor. Considered a part of these courses is the writing of the senior thesis in Government. 3 units. Second semester. *MWF, 11.*

Honors Study

Students of marked capacity are invited to arrange with the Department for enrollment in programs of independent study culminating in the presentation of a dissertation on some subject of special interest and significance. One half of the minimum requirement of 12 units may be met by Government 182 and 183 which together constitute the Senior seminar.

Statistics For Social Scientists. For description see Economics 57.

Elementary Accounting. For description see Economics 71.

AVAILABLE AT CLAREMONT MEN'S COLLEGE

Administrative Organization in Business and Government. *Mr. Benson.* 3 units. Second semester.

AVAILABLE AT CLAREMONT GRADUATE SCHOOL

Open to qualified seniors with the consent of the instructor. For other graduate courses, consult the catalog of The Claremont Graduate School.

220. Politics and Legislation. *Mr. Vieg.* 3 units. First semester.

222. Public Opinion and Public Policy. *Mr. Lee.* 3 units. Second semester.

225. American Political Theory. *Mr. Lee.* 3 units. First semester.

History

The concentration in History has been designed with two purposes: first t provide a program of study for the individual interested in obtaining educa tion along broad and liberal lines which is centered around a core of historica courses, but which affords the widest possible latitude in general electior and second to furnish a sound course of undergraduate preparation for grac uate work in History or for advanced study leading to careers in law, th foreign service, archival work, librarianship, or government service.

General requirement: History 1, or its equivalent, is a prerequisite for a other courses in History.

Concentration requirements: Students planning to concentrate in History ar required to take History 1, 55, 140, and 190 as well as a pro-seminar i History. They should also take Government 51 and 52 and Economics 51 an 52 during the Freshman and Sophomore years. During Junior and Senic years in addition to History 140, 190, and a pro-seminar, they must take a least 12 units of upper division courses in History, and at least 6 units c upper division courses in a related field such as Economics, Governmen Literature, Philosophy, Religion, or Sociology. A knowledge of foreig languages is of great value to students in History, and all concentrators ar urged to gain as much proficiency as possible in this direction. Students wh have in mind advanced work in History should remember that most graduat schools require a reading knowledge of one foreign language for the M.A. an of two for the Ph.D. The courses taken in a program of concentration i History should be carefully selected, and the program as a whole should b planned in consultation with a member of the History Department. All cor centrators in History will write three examinations of a comprehensiv nature near the end of Senior year. One of these will be the same for a concentrators in History and will deal with the subject as a whole, its poin of view and its method. In addition, each concentrator will select two fror the following list of fields in which to be examined: Ancient History, Europ 312-1648; Europe since 1648; the United States; Latin America; and the Fa East. The examinations are not designed with the expectation that student will have taken all courses offered by the Department in one or another fiel in order to pass that examination. Since the fields are broad, an equal degre of familiarity with all aspects is not required. It is the view of the Departmer that judiciously planned independent reading may well supplement or replac courses in preparation for part of the examinations.

Joint Concentration: Philosophy and Literature.
See Philosophy.

Honors requirements: A student admitted to Honors Study in History wi arrange a program of reading and tutorial conferences with the member of th Department who acts as his advisor. Normally this program will exten through Junior and Senior years, and will consist of at least 12 units of Honor in addition to History 140 and 190. Beyond this the courses and pro-seminar

aken are not fixed, and programs will be framed to fit the needs and plans of ıe individual. From time to time, students in Honors will meet together s a group for discussion and the presentation of reports. An Honors thesis ; required of all students in this program. Students in Honors will take the sual written comprehensive examinations in History, and in addition an ral examination over his historical studies in general with particular reference) his reading and thesis.

a-1b. The Development of Western Civilization. *The Departmental taff.* The evolution of civilization in Europe from antiquity to the con- :mporary scene, and its spread throughout the world. Attention is paid to ıe political, religious, intellectual, and economic forces of change. The aim to lay a foundation for the understanding of contemporary problems. 3 nits. *MWF, 8, 9; TThS, 8, 9.*

ı, 2b. Asia and Europe. *Mr. Ch'en.* A survey, not of Oriental civiliza- on, but of Eastern contacts with and contributions to Western Civilization ith emphasis upon the interdependence of cultures. Open to students con- ırrently enrolled in History 1a-b. 1 unit. Fortnightly meetings, *M, 7:15- :00 p.m.* (Omitted in 1954-55.)

;. Current History. *Mr. Herring.* Analysis of contemporary national and ternational issues, based upon reading of representative newspapers and agazines. Fee of $4.00 from each student to pay for material used. Second mester. 1 unit. *Th, 1:15.*

:a, 55b. History of the United States. *Mr. Kemble.* The political, onomic, and cultural development of the United States from its beginning an outpost of European expansion to a position of independence and world fluence. 3 units. *MWF, 11.*

ı. History of Greece. *Mr. Carroll.* A survey of ancient Greece from the ehistoric age until the Roman conquest, with special emphasis on the velopment and decay of the city-state and of Athenian democracy. The :ial, economic, and intellectual history of the period will be considered thin the political frame of reference. 3 units. Second semester. *MWF, 9.*)ffered in alternate years; omitted in 1954-55.)

:2. History of Rome. *Mr. Carroll.* A study of Rome from the beginnings (the city to the disappearance of the Empire. There will be special attention t the problems of imperial administration, the causes of the decline of the lnpire, and the emergence of Christianity. 3 units. Second semester. *MWF,* ((Offered in alternate years; given in 1954-55.)

ı3a, 103b. History of the Middle Ages. *Mr. Learnihan.* History of Europe fm Constantine to Charles V, with special emphasis on the economic, litical, intellectual, and religious developments and the institutions and ials underlying the transition from Mediterranean to European civilization. ıe first semester covers the period 312-1054; the second semester 1054-1500. 3 units. *TThS, 9.* (Offered in alternate years; omitted in 1954-55.)

107a, 107b. History of England. *Mr. Gleason.* The development of th main features of civilization in the British Isles. Emphasis is laid upon th evolution of religious, intellectual, and economic forms as well as the growt of political institutions. Thus the course is largely a study of the cultura heritage of America. First semester, Great Britain to 1688. Second semeste Great Britain since 1688. (May be taken as a semester course). 3 unit *MWF, 11.*

108. History of the Renaissance and Reformation. *Mr. Smith.* A stud of the transition from Medieval to Modern Civilization. Intellectual, socia economic, and particularly religious developments will be considered fro their early manifestations in fourteenth century Italy to their culmination i northern Europe in the seventeenth century. 3 units. First semester. *TThS,*

109. Absolutism and Enlightenment in Europe. *Mr. Smith.* An analys of the social, economic, political, and cultural developments in Europe fro 1648 to 1789 with France as a focal point. 3 units. Second semester. *TThS,* (Offered in alternate years; given in 1954-55.)

110. French Revolution and European Reaction. *Mr. Smith.* A study o the French Revolution as the basis of contemporary civilization. Emphas will be placed on the developments of the Revolution, the Napoleonic perio and the impact of France on Europe from 1789 to 1848. 3 units. Secon semester. (Offered in alternate years; omitted in 1954-55.)

113a, 113b. Europe Since 1848. *Mr. Meyer.* Political, economic, social, an intellectual developments will be studied with reference both to their intrins significance and to an understanding of contemporary Europe. Open t Sophomores who satisfy the instructor with regard to their preparatio 3 units. *MWF, 10.*

114. History of Russia. *Mr. Smith.* A survey of Russian political, economi and cultural history to 1917. Russia's historical relationships with Balti Balkan, and Polish neighbors will be included. This course may be followe by Government 126 to constitute a year's work in Russian History. 3 unit First semester. *TThS, 10.* (Offered in alternate years; to be given in 1954-55.

117a. Intellectual History of Europe to 1750. *Mr. Learnihan.* A study o the formation of the ideas and ideals significant in politics, religion, an science from classical times to the mid-eighteenth century, together with thei expression in literature and institutions, and their influence on the develop ment of society. 3 units. Second semester. *MWF, 9.* (Offered in alternat years; omitted in 1955-56.)

117b. Intellectual History of Europe since 1750. *Mr. Brinton.* Thi course will attempt to describe the changes brought about in the sentiment and theories of ordinary Western Europeans since the mid-eighteenth centur It is not primarily a history of formal philosophic thought. It concerns itse rather with the penetration downward into the crowd of the theories professe by formal thinkers. 3 units. First semester. *MWF, 9.* (Offered in alternat years; omitted in 1955-56.)

120. The Westward Movement in North America. *Staff.* A study of ne migration of people, institutions, and ideas across the continent, from he establishment of the English colonies to the twentieth century. Some ttention will be given to the parallel and overlapping movement of popula- on in Canada. 3 units. (Omitted in 1954-55.)

123a, 123b. History of Latin America. *Mr. Herring.* The Indian and olonial backgrounds; the development of the twenty independent republics o the present day, with emphasis upon Mexico, Brazil, Argentina, Chile and olombia. 3 units. *W, 7:30-9:45 p.m.*

127a, 127b. Studies in Latin American Biography. *Mr. Herring.* Re- orts on the lives of some of the chief figures in the history of Latin America. o be elected only in conjunction with History 123a, b. 1 unit. *W, 4-5 p.m.*

128a, 128b. Inter-American Relations. *Mr. Herring.* Diplomatic, eco- omic and cultural relations between the United States and Latin America om 1800 to the present time. 3 units. *Th, 7:30-9:45 p.m.*

130. Modern Maritime and Naval History. *Mr. Kemble.* A study of the evelopment of sea power and commerce from the sixteenth century to the resent. The growth and character of the great mercantile marines, the volution of naval architecture, and the course and character of war at sea ill be considered. 3 units. Second semester. (Offered in alternate years; nitted in 1954-55.)

134. The History of Spain. *Mr. Herring.* The history of the Iberian Penin- la, including the early invasions; the Roman, Visigothic and Moslem periods; e unification of Spain and Portugal; and concluding with the Siglo de Oro. esigned as introduction to Latin American history. First semester. 3 units. *h, 7:30-9:45 p.m.*

135. The Colonial Period of Latin America. *Mr. Herring.* The Spanish d Portuguese Conquest, colonial government, social and economic institu- ons, the Church. Second semester. 3 units. *Th, 7:30-9:45 p.m.*

145. History of the Pacific Coast. *Mr. Kemble.* The exploration and ettlement of the region and its political, economic, and social development to he present. 3 units. Second semester. *MWF, 1:15.* (Offered in alternate years; given in 1954-55.)

190. Reading and Research in History. *The Departmental Staff.* Individual rograms of reading on significant historical topics or fields. Permission of the ember of the department with whom the reading is to be done must be btained prior to registration. May be repeated for credit. 2 to 4 units. rranged.

197. Representative Historical Personalities. *Mr. Learnihan.* A study of te parts played by a group of significant individuals in the unfolding of Western Civilization and their impact on historical change. 3 units. Second semester. *TTh, 2:15-3:45.* (Offered in alternate years; given in 1954-55.)

165. Representative Societies. *Mr. Gleason.* Several aspects of the politica economical, and intellectual scene in 5th Century Athens, 13th Centur France, 16th Century England, and 19th Century New England will b examined in the light of their historical contexts and of knowledge derive from other courses. Lectures, discussions, readings. Limited to Seniors an not open to concentrators in History. 3 units. First semester. *MWF, 10.*

PRO-SEMINARS

The following courses are designed primarily for concentrators in Histor Other students may be admitted with the permission of the instructor. It intended to offer one pro-seminar in European and one in American Histor each year, but the subject studied will vary from time to time. Arrangement may be made for work of this type in Far Eastern and Latin America History at the Claremont Graduate School.

140. The Study of History. *Mr. Learnihan.* An introduction to the matur study of history. Topics to be considered will include: the philosophy o history, schools of historical writing, historical bibliography, the technique of historical investigation, evidence and its interpretation. The course i designed and required for concentrators in history in the first term of Junio year, but other Junior and Senior students may be admitted with the pe mission of the instructor. 3 units. First semester. *TTh, 2:15-3:45.*

160. Pro-seminar in European History. *Mr. Brinton.* The subject for 195 55 will be France and Western Europe, 1715-1815. (In 1955-56 the pr seminar will be offered by *Mr. Meyer* and the subject will be Europea Fascism, 1918-39.) 3 units. First semester. *MW, 2:15* and arranged.

170. Pro-seminar in American History. *Mr. Kemble.* The subject for 195 55 will be American Civilization, 1763-1828. (In 1955-56 the subject for th pro-seminar will be the History of Western America.) 3 units. First semeste *MW, 2:15* and arranged.

190. Historical Problems and Interpretation. *Mr. Meyer.* Readings an discussion of important aspects of European and American history. Consider tion of major historical developments and some of the most significant work dealing with the several fields of History. The course is designed and require for Seniors concentrating in History. Other Seniors may be admitted wit the permission of the instructor. 3 units. Second semester. *M, 2:15-3:45* an arranged.

AVAILABLE AT SCRIPPS COLLEGE

III-100. Economic Change in the United States. *Mr. Britt.* Year cours *TTh, 10* and arranged.

III-118. American Intellectual and Social History Since 1865. *Mr. Whit*

Humanities IV. *Staff.* Discussion of the contemporary American scene. Yea course. *M, 8:15 p.m.*

AVAILABLE AT CLAREMONT MEN'S COLLEGE

10. History and Problems of Imperialism. *Mr. Povlovich.* 3 units. First emester.

AVAILABLE AT CLAREMONT GRADUATE SCHOOL

These offerings are designed primarily for graduate students, but are open to qualified Seniors by permission of the chairman of the department and the instructor.

01. Studies in Europe Since 1914. *Mr. Cooke.* Second semester. 3 units.

03. Europe in Transition, 1890-1914. *Mr. Meyer.* First semester. 3 units.

09. History of American Foreign Policy. *Mr. Cooke.* Second semester. units.

Mathematics

equirements for concentration: In addition to the basic courses of Mathe- iatics 1a, b or 52, and 65a, b, it is necessary to take the following courses: lathematics 118, 119, 125, 151a, b, and at least three more upper division or raduate units in the department of Mathematics. The remaining six units ay be taken in Mathematics or selected from Physics 113a-b, 191a, b, stronomy 156.

Mathematics 1a, b is normally prerequisite for all other work in the depart- ent. Students who have had trigonometry in high school may take an amination in mathematics on the Saturday preceding registration. If a tisfactory grade is made on this examination, the student may enroll in athematics 52 if he so desires.

, 1b. Introduction to College Mathematics. *Departmental Staff.* While is course prepares students for work in the calculus, it is at the same time mprehensive enough to provide in itself a general mathematical background. is designed for students who have not had trigonometry, but is open to idents who do not wish or are not able to qualify for the alternative scribed above. It includes college algebra, trigonometry, and an introduction analytic geometry and calculus. 3 units. *MWF, 9, 10, 11.*

. Plane Analytic Geometry. *Mr. Miller.* Straight line, conic sections, gher plane curves in various coordinated systems. Credit will not be given r both Mathematics 1 and 52. 3 units. First semester. *TThS, 9.*

a, 65b. Differential and Integral Calculus. *Staff.* This is a standard urse in the theory and application of the calculus. Prerequisite Mathematics or 52. 3 units. *MWF, 9; TThS, 9.* A section of Mathematics 65b will be ered first semester, *TThS, 10,* and a section of 65a second semester, *MWF,* .

2a, 102b. Introduction to Applied Mathematics. *Mr. Miller.* The ele- ntary functions of applied mathematics, curve fitting, numerical integration d differentiation, coordinate systems, and vector methods. A course which is

principally concerned with the application of selected mathematical concep to the other sciences. Prerequisite: Physics 51a-b. A shortened version of th course will be offered in the second semester of 1954-55. 3 units. *MWF, 8.*

118. Higher Algebra. *Mr. Jaeger.* Permutations, combinations, probabilit binomial and multinomial theorems, summation of series, and other algebrai topics. Prerequisite: Mathematics 65 or permission of instructor. 3 units. Fir semester. *MWF, 8.*

119. Theory of Equations. *Mr. Jaeger.* The theory and solution of alg braic and transcendental equations; determinants and matrices. Prerequisite Mathematics 65 or permission of instructor. 3 units. Second semester, *MWF,*

125. Intermediate Calculus. *Mr. Hamilton.* Topics not taken up in Math matics 65, with special emphasis on multiple integrals, partial differentiatio and series with applications of each of these. Prerequisite: Mathematics 6 3 units. Second semester. *TThS, 10.*

151a, 151b. Differential Equations. *Mr. Hamilton.* A general course in th theory, solution, and application of differential equations. Mathematics 12 must be taken before or concurrently with this course. 3 units. *MWF, 9.*

152a, 152b. Advanced Calculus. *Mr. Tolsted.* Limits, sequences, continuit improper integrals, uniform convergences, Taylor and Fourier series, parti derivatives, multiple integrals, line and surface integrals, Green and Stok Theorems. 3 units. *TThS, 9.* (152b omitted 1954-55. 152a will be offere second semester.)

194. Mathematical Statistics. *Mr. Tolsted.* The mathematical basis f statistical theories and methods with applications from various fields. Pr requisite: Mathematics 65a, b. 3 units. Second semester. *MWF, 10.*

195a, 195b. Actuarial Mathematics. *Mr. Jaeger.* Finite differences, interp lation formulas, approximations, summations, probability. Prerequisit Mathematics 65 and 118. 3 units. *TThS, 8.*

198a, 198b. Selected Topics in Higher Mathematics. *Staff.* Special wor or reading not included in the preceding will be offered in this course. 3 unit Arranged.

Mathematical Physics. For description see Physics 191a-191b.

available at claremont graduate school

The following courses, listed among the offerings of the Claremont Gra uate School, are open to superior undergraduates who have satisfied th prerequisites.

200a, 200b. Number Theory. *Mr. Jaeger.* Properties of integers, linear ar quadratic congruences, and algebraic numbers. Prerequisite: Mathematics 6 3 units. *MWF, 10.*

The following courses are usually given as reading courses. The demand will determine which will be given.

05a, 205b. Differential Geometry. *Mr. Tolsted.* The study of curves and surfaces in three dimensional Euclidean space, introducing the tensor calculus the principal mathematical tool in the study of the theory of relativity). Prerequisites: Mathematics 52b or equivalent and Mathematics 152. 3 units. Arranged. (Omitted 1954-55.)

10a, 210b. Complex Variable. *Mr. Hamilton.* Algebra and calculus of complex variables; infinite series; Cauchy's Theorem and consequences, including Taylor and Laurent expansions and classification of singularities; entire functions; meromorphic functions. Prerequisite: Mathematics 152. 3 units. Arranged.

PRE-ENGINEERING

In the following courses three hours of work per week are required for each unit. It is necessary that the student attend class on the hour agreed upon for the lecture, but it is not mandatory that the laboratory work be done in only one or two periods. Credit will not be given for only 1 unit of work.

The letters a, b, c, d, refer to units of work, each letter being associated with one unit. All units are available each semester. A student may enroll in any unit for which he is qualified.

7a, 7b, 7c, 7d. Engineering Drawing. *Mr. Grimm.* A beginning course in mechanical drawing and applied geometry. Includes lettering, orthographic projection, visualization of simple objects, and making working drawings of machine assemblies. 1 or 2 units per semester. Study and drawing period *MTWTh* or *F, 1:15-4;* lecture hour arranged.

40a, 40b, 40c, 40d. Descriptive Geometry. *Mr. Grimm.* Prerequisite: Engineering Drawing 7a and 7b, or previous drawing experience. Theory and principles of projection including points, lines, planes, shades and shadows, plane sections and development of surfaces, and intersections of surfaces. Practical problems from the student's chosen field will be given towards the end of 40d. 1 or 2 units per semester. For a well rounded course 40a should be taken immediately after Engineering Drawing 7. Study and drawing period *MTWTh* or *F, 1:15-4;* lecture hour arranged.

101a, 101b, 101c, 101d. Architecture. *Mr. Grimm.* Prerequisite: Engineering Drawing 7a, 7b, 40a, 40b, and sufficient knowledge of physics that the student is at least conversant with the subjects of mechanics, heat, sound, electricity, and light. Basic work in architectural design including consideration of construction details, materials, wiring, lighting, plumbing, and heating. 1 or 2 units per semester. Study and drawing period *MTWTh* or *F, 1:15-4;* lecture hour arranged.

102a, 102b, 102c, 102d. Mechanisms. *Mr. Grimm.* Prerequisite: Engineering Drawing 7a, 7b, 40a, 40b, Physics 51a. Practice in the graphical solution

of structures, gears, cams, and machine mechanisms, using the principles o statics and kinematics. 1 or 2 units per semester. Study and drawing perio *MTWTh* or *F, 1:15-4;* lecture hour arranged.

103a, 103b, 103c, 103d. Topographical Drafting. *Mr. Grimm.* Prereq uisite: Engineering Drawing 7a, 7b, 40a, 40b. Practice in the making o topographical maps and the construction of models. 1 or 2 units per semeste Study and drawing period *MTWTh* or *F, 1:15-4;* lecture hour arranged.

104a, 104b, 104c, 104d. Production Illustration. *Mr. Grimm.* Prereq uisite: Engineering Drawing 7a, 7b, 40a, 40b, 40c, 40d. Practice in the makin of isometric, oblique, and diametric sketches and drawings including the us of special instruments. 1 or 2 units per semester. Study and drawing perio *MTWTh* or *F, 1:15-4;* lecture hour arranged.

105a, 105b, 105c, 105d. Design of Machine Elements. *Mr. Grimm.* Pre requisite: Engineering Drawing 102a, 102b, 102c, 102d. The design o machines from the student's chosen field. 2 units per semester. Study an drawing period *MTWTh* or *F, 1:15-4;* lecture hour arranged.

AVAILABLE AT CLAREMONT SUMMER SESSION

60. Surveying. *Mr. Grimm.* 3 units. Offered in Claremont Summer Sessio

Military Science

Pomona College, in conjunction with Claremont Men's College, maintain a General Military Science Unit, Senior Division, of the Reserve Officer Training Corps, established under the National Defense Act for the purpos of training students to become officers of the Army of the United State The general purpose of the ROTC is to provide officers for the United State Army Reserve; it also now constitutes a principal source of procurement o junior officers for the Regular Army. Those students who complete the fou year course will be eligible for appointment as second lieutenants in th United States Army Reserve. (Mere completion of the course is not tanta mount to an automatic commission at graduation.) A student who demon strates special aptitude or proficiency will be offered an opportunity for a appointment as a second lieutenant in the Regular Army. For the past tw years the Marine Corps has offered Regular Marine Corps commissions to th ROTC graduates of this institution.

The General Military Science ROTC program consists of subjects an material general in nature and scope so that the Department of the Arm may appoint second lieutenants in the combat, administrative, and technica services of the Army. During the Advanced Course, students will state preference for the branch of service desired. The Military Department Sta and a college representative will then interview each student and recommen to the Department of the Army his future branch assignment. These recom mendations will be considered by the Department of the Army on a natio

vide selection basis and the requirements of the Army. A final decision will ıe rendered to the student on his assigned branch of service by the Department f the Army.

The courses include both classroom and out-of-doors instruction. One drill eriod a week provides an opportunity for the practical application of command nd assists in the improvement of the posture and physical coordination of the tudent. Special emphasis is placed on the development of the qualities of :adership throughout the course.

The instructors in the department are officers of the United States Army ssigned for duty at the college by the Department of the Army. The most ıodern weapons, equipment and types of instructional material are furnished) give the students practical experience in handling such equipment.

The four year program is divided into the Basic Course and the Advanced ourse. The Basic Course consists of Military Science I and II, covering a vo year period. The ROTC Summer Camp is attended during the vacation etween the 1st and 2nd year Advanced Course for a period of six (6) eeks. Enrollment in the Basic Course is on a voluntary basis. Enrollment in ıe Advanced Course is on a selective basis. After a student has enrolled in ther course, the completion of the second year of that particular course ecomes a prerequisite for graduation.

Normally, the four year program for an incoming freshman without prior ilitary service or prior ROTC training would be as follows:

Freshman Year	1st Year Basic ROTC Course	MS I
Sophomore Year	2nd Year Basic ROTC Course	MS II
Junior Year	1st Year Advanced ROTC Course	MS III
Summer Vacation	ROTC Summer Camp (6 weeks)	
Senior Year	2nd Year Advanced ROTC Course	MS IV
Graduation	Appointment as 2nd Lieutenant United States Army Reserve	

(see page 140)

The Basic Course is open to all physically fit male students who are United ates citizens. ROTC enrollment does not interfere with participation in orts by students nor in other college activities. Uniforms, equipment and cts for the courses are issued to the students without charge.

Previous military service furnishes a basis for credit for Basic Course instruc-n according to the individual's length of service, type of training, and norable discharge from the Armed Forces of the United States. Credit, certain cases, is also permitted for prior Senior or Junior ROTC training. plication for advanced standing must be made during registration, and norable discharge from the Armed Forces or certificates showing successful npletion of ROTC courses at other schools should be presented at that ıe.

Enrollment in the Advanced Course (MS III and MS IV) is limited to ected members who have completed the Basic Course, or have received ıivalent credit. A student entering the Advanced Course must sign an

agreement with the United States Government that he will devote fiv (5) class hours per week to Military Science during the academic year, tha he will attend a ROTC Summer Camp of six (6) weeks duration betwee his MS III and MS IV courses, and that he will accept an appointment as second lieutenant in the United States Army Reserve, if tendered. In cor sideration of this agreement, students receive cash allowances from th Government equivalent to a scholarship of about $640.00 for the two (2 year period of the Advanced Course.

Students are required to attend a ROTC Summer Camp during the summe between the MS III and MS IV courses. The Summer Camp is usually of si weeks duration from the middle of June to the first part of August. Exact date and locations of such camps are announced during the latter part of th academic year. All necessary expenses in connection with the training camp including transportation to and from camp, food, housing, pay, uniforms an medical attention are provided by the Government. Each student will atten the ROTC Summer Camp determined by the Department of the Army.

Regularly enrolled ROTC students may be deferred from induction an service under current regulations. Students so deferred must agree to complet the Basic Course, if enrolled therein; to enroll in and complete the Advance Course if accepted therefor; and upon completion of the Advanced Course c instruction, to accept a commission, if tendered; to serve on active duty fo a period of not less than two (2) years after receipt of such commission, subjec to order by the Secretary of the Army and to remain a member of a Regula or Reserve Component of the Army until the eighth anniversary of the receip of his commission unless sooner terminated. This length of service, which the same for every physically qualified US male citizen, can be in an combination so that any part, but not less than twenty-four (24) consecutiv months, of the eight years may be served on active duty and the balance i a Reserve Component.

Graduating students who have maintained a high standing in military sub jects may if they have demonstrated leadership ability, military aptitude an academic proficiency, be designated by the Professor of Military Science an Tactics as, "Distinguished Military Students." The Senior ROTC progra will provide the principal source of procurement of junior officers for th Regular Army through selection of Distinguished Military Graduates of th Senior ROTC Units for direct Regular Army appointment.

1a-1b. Military Science Course I. (Basic Course). *Staff.* America Military History; Organization of the Army and ROTC; Individua Weapons and Marksmanship; and School of the Soldier and Exercise c Command (Drill). 2 units. Class *TTh, 8, 9* or *10;* drill, *M, 1:15-2:05.*

52a-52b. Military Science Course II. (Basic Course). *Staff.* Map an Aerial Photograph Reading; Crew-served Weapons and Gunnery; an School of the Soldier and Exercise of Command (Drill). 2 units. Cla *TTh, 8, 9,* or *10;* drill, *M, 1:15-2:05.*

103a-103b. Military Science Course III. (Advanced Course). *Staff.* O ganization. Function and Mission of the Arms and Services; Leadershi

filitary Teaching Methods; Military Sanitation and First Aid; Rifle Marksıanship, Camouflage and Field Fortifications; Small Unit Tactics and Comıunications; and School of the Soldier and Exercise of Command (Drill). units. Class *MWF, 8* or *9; F, 11 or 1:15;* drill, *M, 1:15-2:05.*

[ILITARY SCIENCE ROTC SUMMER CAMP. (Advanced Course). *Camp Staff.* actics and techniques; marksmanship and weapons training; marches and vouacs; drills and parades; physical training and athletics; subjects pertinıt to General Military Science. Six weeks, during the summer between the ird and fourth year. Camp to be designated by Department of the Army.

54a-154b. MILITARY SCIENCE COURSE IV. (Advanced Course). *Staff.* Supy and Evacuation; Motor Transportation; Troop Movements; Military telligence; Estimate of the Situation and Combat Orders; Command and aff; Training Management; The Military Team; Military Administration; ilitary Justice; The Role of the United States in World Affairs and the esent World Situation; Leadership; Officer Indoctrination; and School of e Soldier and Exercise of Command (Drill). 3 units. Class *MWF, 8* or *9; 11* or *1:15;* drill, *M, 1:15-2:05.*

Music

ıe Department of Music offers instruction and opportunity for musical rformance both to concentrators in the field and to non-concentrators who sire to include musical training in their curricula.

Courses open to non-concentrators: Music Appreciation (53), Theory (1, 4), History (103, 104, 131), and Piano Literature (112). Vocal and insumental instruction may be taken by the non-concentrator if accompanied preceded by Music 1 and 2, or Music 4 (see below under Applied Music). oup activities open to all students include Choir (57), Orchestra (58), nd (59), and Chamber Music (60). Exceptionally well qualified nonıcentrators may be admitted by special action of the Department to any ırse in music.

Requirements for concentration: The program for concentrators provides nprehensive training both for the pre-professional musician preparing for areer as teacher or performer and for the student who may have other ational plans but wishes to major in music during his undergraduate years. e following courses are required of all students concentrating in music: mentary Harmony (1); Ear Training and Sight Singing (2); Advanced rmony (55); Ear Training and Keyboard Harmony (56); History of sic (104); Counterpoint (107); and Form and Analysis (159). Students nsferring from other institutions as upperclassmen should take the ivalent of the Lower Division required courses (1, 2, 55 and 56) before ning to Pomona. Freshmen and all transfer students must take a placement in theory to determine their proper Pomona course assignment and transcredit for previous college theory study.

Before the junior year, students must elect one of the following areas o concentration, which require the courses specified below in addition to th general requirements listed above:

Composition: Orchestration (113) and Free Composition (158).

History: At least 12 units chosen from the following: Music 103, 131, 16 and 163.

Applied Music: Music 11, 61, 111, and 161, or the equivalent.

General Music: A choice of any of the offerings of the Department that wi include Applied Music, Group Activities, and Upper Division theory or histor courses; the foregoing must include 8 units of Upper Division credit.

Secondary School Music: Choral and Instrumental Conducting, Rudimen in the Playing of Orchestral and Band Instruments, Orchestration, 4 units piano, 4 units of voice, and work in Choir, Band, or Orchestra. In conjunctio with the Claremont Graduate School, Pomona College offers a five-ye program in which music majors who intend to teach in the public schoo may meet the requirements for the General Secondary Credential with major in music. Such students will normally elect Secondary School Mus as their area of undergraduate concentration; those electing other areas concentration in music should be certain that the program of studies for the graduate year will accommodate those Secondary School Music requiremen which they are omitting as undergraduates. All students preparing for t teaching credential should consult with the Claremont Graduate School abo the state requirements.

THEORY, APPRECIATION AND HISTORY

1a-1b. Elementary Harmony. *Mr. Loucks, Mrs. Briggs.* This course, wi Music 2a-2b, gives thorough grounding in the fundamentals of music throug the mediums of hearing, singing, writing, and the keyboard. It involves study of the major and minor modes; all diatonic triads and seventh chor and all non-chordal tones; analysis of harmony, melody, and form; free ke board and four-part vocal writing based on the techniques of the 17th, 18t and 19th centuries. The course is designed for both concentrators and no concentrators. Prerequisite: a knowledge of time signatures, simple k signatures, and ability to read a simple hymn at the piano. Credit for t course is given only when accompanied by 2a-2b. 3 units. *MWF, 9* or *1:15.*

2a-2b. Ear Training and Sight Singing. *Mr. Loucks, Mrs. Briggs.* Traini in melodic, rhythmic and harmonic relationships through singing and dic tion. Keyboard practice in chord progressions and simple modulations. To taken with 1a-1b. Each section limited to seven students. 2 hours, 1 un *MW, 10* or *1:15; TTh, 10* or *1:15.*

4a-4b. Materials of Music. *Mr. Eller.* This course is designed to give thorough elementary understanding of the materials of music—harmo melody and rhythm—and to develop facility in reading and notating mus Discussion of these materials from a historical as well as a theoretical vie

oint will be part of the course, which aims at the development of the student's omprehension of all the factors that enter into the musical experience. The ork will comprise written exercises, sight-singing, supplementary listening, id selected readings. This course is intended for the general student; credit r it may not be counted towards concentration in music. 3 units. *MWF, 10.*

a-53b. Introduction to Music. *Mr. Dayton.* Survey of the principal riods in music history from the Renaissance to the present; important comsers, trends, forms, and musical aesthetics of each era. Detailed study and alysis of symphony, concerto, opera, chamber music, song and piano literure. A non-technical listening course. No previous musical experience quired. 2 units. *MW, 2:15.*

a-55b. Advanced Harmony. *Mr. Loucks.* A writing course. The first mester is devoted to a study of diatonic and chromatic harmony, modulion, part-writing and kepboard texture as exemplified in the chorales d selected keyboard works of J. S. Bach. The second semester continues th harmonic practices and smaller forms of Haydn, Mozart, Beethoven, and e Romantic composers; considerable original work and practice in instruental writing. Survey of Wagner's and Debussy's harmonic idiosyncrasies. erequisite: Music 1 and 2. Credit for this course is given only when ompanied by 56a-56b. 3 units. *MWF, 10* or *11.*

a-56b. Advanced Ear Training and Keyboard Harmony. *Mr. Loucks.* aining in the hearing of progressions involving chromatic chords, largely ough harmonic dictation. Keyboard work including modulation and sight rmonization of melodies. 2 hours, 1 unit. *MW, 2:15; TTh, 10,* or arranged.

a, 60b. Chamber Music. *Mr. Fiske.* A study of important chamber music rature from the 17th century to the present day through performance and alysis. Course also includes historical study of the works performed. en only to advanced instrumentalists able to participate in performance. mission of instructor required. The course may be repeated for credit. nits. *M, 2:15-4:05,* or arranged.

a, 103b. Music In American History. *Mr. Fiske.* A study of the part sic has taken in the social and educational growth of the United States, m the colonial period to the present day. Attention will be given to folk, pular, and art music and their importance in various phases of our national tural development. Not limited to music students. 3 units. *TThS, 9.* ffered in alternate years; to be given in 1954-55.)

a-104b. History of Music. *Miss Smith.* Intended to familiarize the student with the major trends in the history of music from the early Christian to the present, with special emphasis on composers, music and developnts from the 16th century onward. Considerable attention is given to sic problems of the present day. Prerequisite: Music 1 or permission of ructor. 3 units. *TThS, 9.*

a-107b. Counterpoint. *Mr. Loucks.* A writing course, based on the sic of Lassus, Palestrina, Bach, and other masters of contrapuntal texture,

in pursuit of the following objectives: (1) appreciation of the modal poly phony of the 16th century; (2) skill in the techniques of free two- and three part tonal counterpoint, development of motives, imitation, invertible counter point, the fugal exposition; (3) detailed analysis of, and original work in contrapuntal forms such as the prelude, invention, classical suite, choral prelude, passacaglia, fughetta; (4) familiarity with standard authorities on contrapuntal theory. The last month of the course is devoted to free com position. Prerequisite: Music 55a-55b, 56a-56b. 3 units. *TThS, 8.*

112. Piano Literature and Repertoire. *Mr. Dayton.* A comprehensiv survey of the solo, concerto and two-piano literature, including a detailed study of the pianistic styles of Bach, Mozart, Beethoven, Schumann, Chopin Brahms, Debussy and contemporary composers. Special emphasis on program building and the technique of public performance. Permission of instructo required. 3 units. Second semester. Arranged.

113a-113b. Orchestration and Instrumentation. *Mr. Blanchard.* A study of the instruments of the modern orchestra and band, their technical possi bilities and limitations. Practical laboratory work in scoring for instrumental groups. Choral arranging for various voice combinations with and withou accompaniment. Opportunity will be provided for public performance o outstanding scores. Prerequisite: Music 55. 3 units. *M, 2:15-4:05;* third hou arranged.

117. Choral Conducting. *Mr. Russell.* Technique of conducting repertoire score analysis, rehearsal planning, chorus building. Prerequisite, choral exper ence and demonstration of sufficient ability in sight-singing and piano Permission of instructor required. 2 units. First semester. *F, 1:15-3:05.*

118. Instrumental Conducting. *Mr. Fiske.* A course specifically designe for students working for the State Music Credential. Baton technique, bea formation in all rhythms, score reading, rehearsal problems, repertoire. Per mission of instructor required. 2 units. Second semester. *F, 1:15-3:05.*

119a-119b. Rudiments in the Playing of Orchestral and Band Instru ments. *Miss Smith* and *Mr. Blanchard.* A course designed to give the student a knowledge of the fundamentals of wind and string instrument through study and practice. First semester: strings; second semester: winds 2 units. Arranged.

131. Contemporary Music. *Mr. Dayton.* A study of the philosophies, ideals and objectives of contemporary composers; examination of new idioms, forms mediums, and technique. Survey and analysis of important works of Debussy Bartok, Schönberg, Strawinsky, Hindemith, and other outstanding figures o the 20th century. Students electing this course should be able to follow a score Permission of instructor required. 3 units. First semester. Arranged.

158a-158b. Free Composition. *Mr. Blanchard.* Advanced original work i various forms and mediums to develop the student's sense of musical structur and his individual manner of musical expression. Prerequisite: Music 10; 3 units. *W, 1:15-3:05;* third hour arranged.

59a-159b. Form and Analysis. *Mr. Eller.* Designed to lead to a clear nderstanding of the principles upon which musical form is based, and to ie application of these principles in the works of the great masters of form. rerequisite: Music 55. 2 units. *T, 1:15-3:05.*

60a, 160b. Music of the Middle Ages and the Renaissance. *Mr. Russell.* udy by analysis, class performance, and listening to records, of a repertoire music selected to exemplify these periods chronologically and stylistically. rst semester: music of the early Church, the Troubadours, Gothic polyphony, id the final flowering of the medieval musical art in the *ars nova* of the 14th ntury. Second semester: Dufay and the 15th century through the culmination of the Renaissance style in the music of Palestrina and his contemporaries the Golden Age of polyphony. Prerequisite: Music 104. 3 units. *MWF, 9;* arranged. (Offered in alternate years; to be given in 1954-55.)

63a-163b. Music of the Baroque and Classical Periods. *Mr. Russell.* Study analysis, class performance, and listening to records, of a repertoire of usic chosen to exemplify the periods chronologically and stylistically. First mester: sacred and secular vocal and instrumental music from the age of onteverdi to that of Bach and Handel, continuo realization and other oblems in present day performance of baroque works. Second semester: ergence of the classical style; music of Haydn, Mozart, Beethoven, Schubert, d contemporaries; survey of influence of classical style down to our own ne. Prerequisite: Music 104. 3 units. (Offered in alternate years; to be itted in 1954-55.)

AVAILABLE AT SCRIPPS COLLEGE

169. Nineteenth Century Music. *Mr. Pattison.* Year course. *TTh, 1:15-*
15.

170. Contemporary Music. *Mr. Pattison.* Year course. *TTh, 3:15-4:45.*

GRADUATE STUDY IN MUSIC

Graduate work in Theoretical and Applied Music is offered under the spices of the Claremont Graduate School.

GROUP ACTIVITIES

Open to all students in the college, subject to the following regulations: (1) mission of the instructor is required for Orchestra (58) and Band (59),) not more than two group activities may be taken simultaneously for dit, and (3) a total of not more than 16 units of credit for group activities y be counted toward the Bachelor of Arts degree.

-57b. College Choir. *Mr. Russell.* The study of classic and contemporary ral music through rehearsals leading to public performance. All students eligible for the Choir, but continued membership is contingent upon satisfactory performance in a singing test held in October on music practiced ing the opening weeks of the semester. New members admitted in first mester only. Fee to cover cost of music, $2.00. 1 unit. May be repeated for dit. *MWThF, 12:30-1:10; T, 11:30-12:20.* (Women do not meet on *Th;* n do not meet on *M.*)

58a, 58b. Orchestra. *Mr. Fiske.* A study of major works of orchestral repertoire and application of the principles of orchestral routine through public performance. Two periods of attendance weekly. Additional sectional rehearsals at option of director. The course may be repeated for credit. 1 unit. *TTh, 4:15.*

59a, 59b. Band. *Mr. Russell.* Concert and field work, brass ensemble work, joint performance with choral groups, opportunity for performance of student compositions and arrangements. Two rehearsals weekly. 1 unit. May be repeated for credit. *MW, 4:15.*

Men's and Women's Glee Clubs. *Mr. Russell.* The Glee Clubs offer opportunity for performance of sacred and secular choral works in a small extracurricular ensemble. Each club enrolls between thirty and forty members at the beginning of the college year. All students are eligible, although final admission is by tryout only. Two rehearsals weekly. No credit.

APPLIED MUSIC

Individual and class work in Applied Music for credit is open to all students in the college, subject to the following provisions: (1) Music 1 and 2 (Elementary Harmony and Ear Training) must accompany or precede all credit study for concentrators. Non-concentrators may obtain credit for one lesson per week by taking either Music 1 and 2 or Music 4 (Materials of Music). Music 55 and 56 (Advanced Harmony and Ear Training) must accompany or precede more than one year of credit study for those taking two lessons weekly. (2) A total of not more than 16 units of Applied Music may be counted toward the Bachelor of Arts degree. Credit of 1 unit per semester is given for one private lesson weekly, 2 units per semester for two private lessons weekly. All private lessons are one-half hour in length. (3) Students concentrating or preparing to concentrate in Applied Music are required to take two lessons per week in their major subject and to appear frequently in recitals. (4) Transfer of credit for Applied Music from a recognized institution may be granted upon examination and departmental recommendation. No credit is given for work in Applied Music taken elsewhere while the student is enrolled in Pomona College.

Students may also elect work in applied music without credit.

11. Applied Music, Freshman level.
61. Applied Music, Sophomore level.
111. Applied Music, Junior level.
161. Applied Music, Senior level.

Voice, *Mrs. Briggs, Mr. Pilon.*
Organ, *Mr. Blanchard*
Piano, *Mr. Dayton, Mr. Eller*
Violin and Viola, *Mr. Fiske, Miss Smith*
Violoncello, *Miss Jean*
Harp, *Mrs. Remsen*
Brass, *Mr. Tyler*
Woodwinds, *Mr. Bloch, Mr. Harbaugh, Mr. Stevens*

Lessons on other instruments may be arranged through the office of the Department.

Examinations in Applied Music. Examinations, to be given before the ntire Music Faculty, are required of all students in Applied Music, as follows:

Qualifying Examination for Lower Division Credit — to be given, nor-ally, at the beginning of the Freshman year to determine eligibility for credit. o credit is given for elementary study.

Qualifying Examination for Upper Division Credit — to be given, nor-ally, at the end of the Sophomore year to obtain faculty recommendation r concentration in Applied Music. Should a student fail to qualify for such commendation, he may repeat the examination at the beginning of his nior year. Transfer students will be examined upon entrance.

Students who fail to pass the Qualifying Examination for Upper Division redit but wish additional credit may, by special examination, be allowed maximum of 4 more units at the Lower Division level.

Senior Comprehensive Examination in Applied Music — all students con-ntrating in Applied Music will present a satisfactory senior public recital take the comprehensive Applied Music Examination to be given at the end the senior year.

Printed information concerning the Qualifying Examinations may be tained from the Music Department.

FEES FOR INSTRUCTION AND PRACTICE

For those paying regular tuition:	PER SEMESTER
ne-half hour private lesson per week	$45.00
ch additional half-hour	40.00
For those carrying less than ten hours of college work, exclusive of work in applied music:	
ne-half hour private lesson per week	60.00
ch additional half-hour	40.00
ass instruction	25.00

PRACTICE FEES	PER SEMESTER
no, one hour daily	6.00
idges Hall Organ (four manuals), one hour weekly	5.00
vo-manual Organ, one hour weekly	2.50
dges Auditorium Organ, Claremont College, (advanced students only) one hour weekly	15.00

All students taking courses in Theory (Harmony, Counterpoint, Composition and Orchestration) will be charged the above fee of $6.00 per semester for use of a piano. Students taking two of these courses will not be charged this fee for the second course, and the fee will not be charged to students who pay a practice fee in connection with their lessons in Applied Music.

Oriental Affairs

A student concentrating in Oriental Affairs must take Oriental Affairs 51a and 51b. Twenty-four hours of upper division work are required. This must include one year's work in language. The other work should be selected from the following courses: Oriental Affairs 103, 104, 105, 111, 123, 124, 140, 160; Philosophy 126.

51a, 51b. The Cultural Legacies of East Asia. *Mr. Ch'en.* A survey of the humanistic achievements of China and India, and their diffusion in other lands in East Asia. A general introduction to East Asian literature, philosophy, religion, and art. 3 units. *MWF, 10.* (Omitted in 1954-55.)

52a, 52b. First Year Chinese. *Mr. Wen.* A course for beginners in the Chinese language, with equal emphasis on the analysis of written characters and on actual use of the spoken language. 3 units. *TTh, 1:15.*

103a, 103b. History of China. *Mr. Ch'en.* General survey of Chinese History, with emphasis on such topics as the rise of philosophical schools, important movements in literature and art, and the evolution of social and political institutions. An effort will be made to interpret the complexities of the problem of present day China in the light of her ancient cultural heritage. 3 units. *MWF, 9.*

104. Chinese Literature in Translation. *Mr. Ch'en.* A study of outstanding Chinese literary works in English translation with the aim of a deeper appreciation of Oriental life and thought. 3 units. Second semester. *MWF, 10.*

105. Contemporary East Asia. *Mr. Ch'en.* The impact of Occidental cultures and peoples upon Eastern Asia, including India and Malaysia; the physical, intellectual, and moral resources of Oriental nations; the post-war problems of these countries today. 3 units. First semester. *MWF, 10.*

111. Japanese History and Culture. *The Staff.* The evolution of Japanese social, economic, and political institutions since prehistoric times. Geographical foundations and the development of Japanese philosophy, literature, and the fine arts will receive some stress. About one-third of the course will deal with Japan since 1603. 3 units. Second semester. *TThS, 10.* (Omitted in 1954-55.)

123. Eastern Asia in the Nineteenth Century. *The Staff.* A consideration of the traditional patterns of life and institutions in China under the Manchus, in Tokugawa Japan, and to a lesser extent under the old regime in Korea, Siberia, and Southeastern Asia prefaces a study of the impact of Western imperialism and civilization upon those countries. Domestic developments receive slightly more emphasis than foreign relations. 3 units. First semester. *MWF, 11.* (Omitted in 1954-55.)

124. Eastern Asia in the Twentieth Century. *The Staff.* Cultural and political revolutions which began or have been accentuated since the turn of

e last century and which still are in progress will be studied. Special attenon is devoted to the implications of such forces as nationalism and imperialn, democracy and totalitarianism, capitalism and communism, science and dustrialism, operating as the Far East evolves new modes of thought, ganization and behavior. It is suggested but not required that this course preceded by Oriental Affairs 123. 3 units. Second semester. *TThS, 10.* Omitted in 1954-55.)

0. History of Cultural Relations Between China and the Occident. *r. Ch'en.* A rapid survey of the religious, intellectual, literary and artistic lations and interchanges between China and the Western World from reco-Roman times to the middle of the nineteenth century. 3 units. Second nester. *T, 7-9:30 p.m.* (Omitted in 1954-55.)

1a, 151b. Second Year Chinese. *Mr. Wen.* An intermediate course open those who have had 52a, 52b. 3 units. *TTh, 2:45.*

0. History of Far Eastern Diplomacy. *The Staff.* Some attention to Euean relations with Malaysia and Indonesia, and to the period of 1500-1800; t major emphasis on diplomatic relations of the Western Powers and Russia th China, Japan, Korea, and the Philippines since 1800. 3 units. First nester. *TThS, 10.* (Omitted in 1954-55.)

1a, 181b. Third Year Chinese. A continuation of 151a, 151b with rcises in reading classical (Wenli) Chinese prose and poetry. 3 units. ranged. (Omitted in 1954-55.)

5. Readings in Oriental Affairs. *Staff.* Prerequisite: one course in Orial Affairs and permission of instructor. 2 or 3 units. Each semester. May repeated for credit. Arranged.

iental Philosophy. For description see Philosophy 126.

AVAILABLE AT CLAREMONT GRADUATE SCHOOL

. Contemporary Eastern Asia and Malaysia. *Mr. Ch'en.* First semester. nits. *T, 7:30-9:30 p.m.*

a, 251b. Advanced Chinese.

. Studies in the History of Modern China. *Mr. Ch'en.* Second semester. nits. *T, 7:30-9:30 p.m.*

Philosophy

losophy 57, and the combination of Philosophy 110 and 111, are general oductions to philosophy. They are recommended for students who wish a eral acquaintance with the subject. Either satisfies the distribution uirements.

oncentration: Students planning to concentrate in philosophy must take nty-four units of upper division work including philosophy 110, 111, 112

and 113. Eighteen of these units must be in the field of philosophy, but six units of work may be chosen from other departments if the selection is approved by the student's adviser. Philosophy 51 and 131 are strongly recommended for those concentrating in philosophy. Information concerning the Honors program in philosophy may be obtained from the Department. Those intending to do graduate work in philosophy should have a reading knowledge of French and German.

Joint Concentration: PHILOSOPHY AND HISTORY. History 1 and 55 and Philosophy 57 are the normal lower division concentration requirements and will apply to the joint concentration, except by special arrangement. Students electing the joint concentration must choose from each of the four groups below at least the number of units specified.

Group I (9 units): HISTORY 140, 190, and one pro-seminar.

Group II (6 units): HISTORY 101 *or* 102 *or* 103a *or* 103b *or* 107a *or* 108.

Group III (6 units): HISTORY 107b *or* 109 *or* 110 *or* 113a *or* 113b.

Group IV (15 units): PHILOSOPHY 110, 111, 112, 113, and one additional upper division course.

The comprehensive examination at the end of the senior year will consist of three parts: the general History examination, one subject field in History selected by the student, and the general History of Philosophy examination, which will take into consideration the additional upper division work done in Philosophy.

Joint Concentration: PHILOSOPHY AND LITERATURE. Students electing the joint concentration must choose from each of the four groups below at least the number of units specified.

Group I (6 units): ENGLISH 153 *or* 154 *or* 155 *or* 156.

Group II (9 units): ENGLISH 101 *or* 102 *or* 103 *or* 104.

Group III (6 units): ENGLISH 105 *or* 115 *or* 192 *or* 193.

Group IV (15 units): PHILOSOPHY 110, 111, 112, 113, and one additional upper division course. Students will be examined in both fields in the comprehensive examination at the end of the senior year.

51. INTRODUCTION TO LOGIC. *Mr. Iredell.* A study of the elements of deductive and inductive reasoning with special emphasis upon the nature and use of scientific hypotheses, probability, and deductive and inductive fallacies. 3 units. First semester. *MWF, 8.* (Omitted in 1954-55.)

57a, 57b. PROBLEMS OF PHILOSOPHY. *Mr. Jones, Mr. Sontag* and *Mr. Bowman.* An introductory consideration of the meaning and method of philosophy, an examination of the major problems with which philosophers deal, such as ethics, theory of knowledge, as well as the problems which emerge in the sciences, and a review of some of the main philosophic estimates of life. 3 units. Three sections. *MWF, 9, 10; TThS, 8.*

10. Classical Philosophy. *Mr. Sontag.* The first of a series of four semester ourses, normally taken in sequence, designed to present the history of western hilosophy through primary source readings, lectures and discussion. The eriod covered will be from early Greek philosophy to the end of the Middle ges. 3 units. First semester. *MWF, 11.*

11. Modern Philosophy. *Mr. Bowman.* Primary source readings, lectures and iscussion on the period including the Renaissance, the Continental Rationalists, ie British Empiricists, and Kant. 3 units. Second semester. *MWF, 11.*

12. The Nineteenth Century. *Mr. Jones.* A study of the main currents f 19th century thought and of their reflection in the literature, the history, nd the social movements of the period. 3 units. First semester. *MWF, 2:15.*

13. Contemporary Philosophy. *Mr. Iredell.* A study of contemporary hilosophic thought with special reference to the dominant ideas of the civil- ation of today. Prerequisite: Philosophy 57, or such previous work as ill provide an equivalent grasp of the basic problems of philosophy. 3 units. econd semester. *MWF, 8.* (Omitted in 1954-55.)

18. Metaphysics and Ontology. *Mr. Sontag.* A speculative inquiry into the ndamental questions of existence, with special attention to such problems as eing and non-being, the infinite and the finite, God and the world, substance, nity, and the nature of time. The course will consist of readings and discus- ons in the classical sources of metaphysical doctrine, with the intent of aching a constructive, systematic answer to these fundamental questions. 3 nits. First semester. (Offered in alternate years.) *MW, 1:15* and arranged.

20. Philosophy of Art. *Mr. Jones.* Designed primarily for students work- g in some form of artistic expression who are interested in studying the gnificance and limitations of the esthetic experience. 3 units. First semester. *WF, 2:15.* (Omitted 1954-55.)

24. Philosophy and Religion. *Mr. Sontag.* A study of the relationship of hilosophy, theology and religion. The chief topics will be an evaluation of the aditional proofs for God's existence and the difficulties involved in trying to scribe the Divine Nature, together with an analysis of religion's view of the ture of man and the nature of the world, as well as the particularly unique ims of Christianity. The course will proceed by reading and discussion of e classical statements from Plato to the present day. 3 units. *MWF, 9.* Offered in alternate years. Omitted in 1954-55.)

26. Oriental Philosophy. *Mr. Iredell.* This course is designed to provide e student with a general background of oriental thought as a basis for ther study of oriental life and culture. An attempt will be made to gain appreciation of the thought life of the Orient through a study of some of e more important thinkers and schools of oriental philosophy and through comparison of oriental and western philosophical views and cultural ideals. nits. Second semester. *MWF, 8.* (Omitted in 1954-55.)

131. Ethics. *Mr. Sontag.* A consideration of the central issues in moral theory, such as right and wrong, good and evil, justice and injustice, together with the historical and contemporary solutions which have been proposed for these problems. The course will discuss and evaluate the ethical theory of various philosophers from ancient times down to the contemporary scene. The aim will be to formulate an acceptable ethics for the present day. 3 units. Second semester. *WF, 1:15* and arranged.

132. Philosophy of the State. *Mr. Bowman.* A critical investigation of such central political concepts as: the state, society, the individual, freedom, law, rights, duty, property, etc. The course will emphasize applications to currently competing systems; it is therefore designed for the student who is keenly aware of the clashes in ideals around him and who is willing to push systematically to the roots of these clashes. 3 units First semester. *TThS, 9.*

136. The Philosophy of Plato. *Mr. Sontag.* A systematic study of the dialogues of Plato, with particular emphasis on uncovering the complete Platonic metaphysics, theory of knowledge, and ethics. The aim will be to discover and to understand the unified thought of a single man, as an example of the growth and development of philosophic thought. 3 units. First semester. *MWF, 10.* (Omitted in 1954-55.)

137. The Philosophy of Aristotle. *Mr. Sontag.* A course designed to complement Philosophy 136, by means of a study of the similarities and the differences between the doctrines of the two major classical philosophers. The course will proceed by means of a reading of all of the major works of Aristotle, including a study of Aristotle's criticism of Plato, with emphasis on the contrast between the views of the two men. 3 units. First semester. *WF, 3:15* and arranged. (Offered in alternate years; omitted in 1954-55.)

138. Philosophy of Kant. *Mr. Kaufman.* Readings in and discussion based on Kant's three *Critiques* and his work on religion, with the objective of gaining a balanced view of Kant's philosophy as a whole and some understanding of his importance for modern philosophy. (Offered in alternate years; omitted 1954-55.)

142. Seminar in the Problems of Philosophy. *Staff.* Designed primarily for departmental majors. Problems in metaphysics, ethics and epistemology will be considered, with the exact program varying from year to year depending on the needs and interests of those participating. The course will consist of primary source readings, discussion and reports, and it may be repeated for a total of six units. 3 units. Each semester. *Th, 1:15* and arranged.

151. Some Representative Philosophies of Life. *Mr. Jones.* A study of the views of four philosophical poets — Lucretius, Dante, Goethe, and T. S. Eliot. 3 units. Second semester. *MWF, 2:15*

153. Philosophy of Science. *Mr. Bowman.* A consideration of the basic concepts and methods underlying contemporary scientific thought. The concepts of space, time, matter, energy, empirical method, etc. will be examined critically

with special emphasis on current post-Newtonian theory. 3 units. Second semester. *TThS, 9.*

190. Senior Research Project. *Staff.* Independent study and reading on a topic of the student's choice, culminating in a major research paper. The problem selected may be either speculative or historical, and an outline of the proposed project should be submitted for approval at the beginning of the term. 3 units. Each semester. Arranged.

History of Political Thought. For description see Government 182.

Philosophy of Religion. For description see Religion 101.

Introduction to the Philosophy of Education. For description see Education 151.

AVAILABLE AT SCRIPPS COLLEGE

V-54. Literary Interpretations of Philosophical Questions. *Mr. Barrett.* First semester. *MWF, 11.* (Omitted in 1954-55.)

V-57. Logic. *Mr. Barrett.* Second semester. *MWF, 11.*

V-158. Standards, Symbols and Values. *Mr. Barrett.* First semester. *MWF, 11.*

V-160. Contemporary Philosophy. *Mr. Barrett.* Second semester. *MWF, 10.*

Physical Education

The program of Physical Education in Pomona College is based upon the belief that a liberal education should include knowledge of the structure and functions of the human mechanism; understanding of the hygienic practices which promote physical, mental and social health; reasonable skill in developmental and recreational activities of a physical type which will promote the individual's well-being during college years, and in later life; and a disposition to make such knowledge and skill essential elements in effective living.

A student is required to take one unit of Physical Education Activities per semester during his Freshman and Sophomore years, and one-half unit per semester during his Junior and Senior years.

CONCENTRATION IN PHYSICAL EDUCATION

This program, followed by a year of graduate work, will qualify the student for the general credential with a major in physical education. It will also qualify the student for further study in physical therapy, occupational therapy, and recreation. Students interested in the three latter fields should confer with some member of the physical education department during the freshman year since slight changes in the following program may be needed to qualify for entrance to some of these fields.

In order to complete all required courses in the four year college period students should take courses in the year in which they are suggested below.

Freshman Year: Biology 1, English 1, Physical Education 5, Speech and Drama 52.

Sophomore Year: Zoology 37, Education 53, Psychology 51, Sociology 51 and 52.

Junior Year: Physical Education 123, 124, 129, 152, 118 or 119 (women), 191 (men), Psychology 107. Suggested: Music 53, Physical Education 224.

Senior Year: Physical Education 126, 154, 192 (men), 130 (women), 118 or 119 (women), Psychology 108.

In addition to the above, 6 units of physical education activities are required. It is suggested that these be so selected as to give the individual opportunity for both technical skills and leadership training in a wide range of activities.

A reading knowledge of French or German is highly desirable for students planning graduate research in physical education.

A non-credit Camp Counselor's training course for women is held throughout the year. The course aims to provide its members with experience and skills useful in summer camps, playgrounds, and other activities of community recreation. (Given when there is sufficient demand.)

THEORY

5. Principles of Healthful Living. *Miss Shurtz, Mr. Malan.* A consideration of factors that influence the physical and mental health of people as individuals and as members of society. Includes methods for the promotion of the health of the individual with emphasis on special health problems of college students and young people generally. Women, 3 units, first semester, *MWF, 10.* Men, 2 units, first semester, *MW, 11.*

118a-118b. (Women) Methods of Teaching Individual and Dual Sports. *Miss Shurtz.* Analysis of techniques and methods of presenting individual and dual sports at the elementary and secondary school levels, in camp and playground situations. Laboratory work includes supervised teaching of the individual and dual sports in college classes, officiating, and assisting in planning intramural tournaments and playdays. Prerequisite: minimum skill in the following physical education activities: archery, badminton, swimming, tennis. 2 units. *MW, 9* and arranged. (Given in alternate years; omitted 1954-55.)

119a-119b. (Women) Methods of Teaching Team Sports. *Miss Shurtz.* Analysis of techniques and methods of presenting team sports at the elementary and secondary school levels, in camp and playground situations. Laboratory work includes supervised teaching of the team sports in college classes, officiating, and assisting in planning intramural tournaments and playdays. Prerequisite: minimum skill in the following physical education activities: basketball, hockey, softball, speedball, volleyball. 2 units. *MW, 9.* (Given in alternate years. To be given in 1954-55.)

23. Nature and Function of Play. *Miss Cawthorne.* The psychology of lay and the function of play in growth, development and social adjustment. fethods of leadership and organization of play activities to bring out moral abits and use of the democratic process in play situations. Special attention given to the elementary school physical education program. First semester. units. *TTh, 8.*

24. Community Recreation. *Miss Cawthorne.* A study of the organization school and municipal playgrounds and the contributions of the federal overnment to recreation programs in the United States. History of the ecreation Movement in the United States. Types of organization and leader-ip needed for conducting tournaments, active and quiet play programs, cial recreation and camp activities. Study of the physical lay-out of different pes of recreation centers. Survey of administrative set-ups for municipally anced recreation programs. Limited to Juniors and Seniors. Second mester. 2 units. *TTh, 8.*

36. Community Hygiene. *Miss Shurtz.* A survey of the field of public alth and sanitation. Includes a brief historical account, a study of general ctors influencing public health and a summary of public health agencies, eir organization and activities. Extensive study of public and private water pplies, disposal of wastes, control of food and dairy products, proprietary edicine and quackery, and mental, industrial and school hygiene. Second mester. 3 units. *MWF, 10.*

39. Kinesiology. *Miss Cawthorne.* An analysis of joint and muscular echanisms, and their relation to problems of bodily development and ficiency. Prerequisite, Zoology 37. 3 units. First semester. *MWF, 8.*

30a, 130b. The History and Teaching of Dance. *Miss Burt.* Analysis of e problems and techniques of presentation of rhythms for those preparing r recreational leadership or for teaching at the elementary or high school vel. The first semester includes the historical background of both folk and ntemporary dance and the theory and practice of teaching elementary ythms and folk dance. The second semester includes advanced technique and mposition and the theory and practice of teaching contemporary dance at e secondary level. One hour lecture, two hours laboratory, each semester. units. Lecture *M, 10;* laboratory *WF, 10.* (Omitted in 1954-55.)

32. Physical Deviations. *Miss Cawthorne.* Study of body mechanics and e causes, prevention, and correction of physical defects. Laboratory work cludes methods of examination, prescription of exercises. Prerequisite, 129. nits. Second semester. *MW, 8;* and laboratory *F, 8-10.*

34. Principles of Physical Education. *Mr. Malan.* A study of the phil-ophy of Physical Education as revealed by a survey of basic guiding inciples. Includes a critical analysis of current practices in the field. mited to juniors and seniors majoring in Physical Education and Education. nits. Second semester. *MWF, 11.*

191a, 191b. (Men) Methods of Teaching the Major Sports. *Staff.* A study of the theories and techniques in teaching and coaching the major sports of the school physical education program. Laboratory work with intercollegiate, intramural and physical education class groups is included. Limited to junior and senior majors and minors in Physical Education and Education. Others must have permission of department. 2 units. *TTh, 1:15* and arranged.

192a, 192b. (Men) Methods of Teaching Minor Sports. *Strehle.* A study of the theories and techniques in teaching the minor sports and other physical education activities. Laboratory work with intercollegiate, intramural and physical education class groups is included. Limited to junior and senior majors and minors in Physical Education and Education. Others must have permission of department. 2 units. *M, 2:15* and arranged.

224. Organization and Administration of Physical Education and Recreation. *Mr. Bell.* Required for teaching credential. *(Available at the Claremont Graduate School during Summer Session when there is sufficient demand.)*

MEN'S ACTIVITIES

Students engage in programs of physical education activities selected according to individual needs as determined by medical and physical examinations and tests. Complete freedom in the choice of activities is permitted only to men who maintain acceptable standards in health, physical development, and physicial efficiency. Among the minimum requirements of the Department are good posture, ability to swim, elementary skill in self defense, proficiency in fundamental activities, reasonable skill in at least one individual sport and in one team game.

The following physical education activities are carried on under supervision of the Department: Archery, badminton, baseball, basketball, boxing, corrective exercises, cross country running, dancing, fencing, football, golf, gymnastics, life saving, soccer, softball, swimming and diving, tennis, touch football, track and field athletics, tumbling, volleyball, water polo, weight lifting, and wrestling. Co-educational classes are sponsored also with the Women's Department. Fees as indicated are required each semester of those who select archery ($1.50), fencing ($7.00), golf, ($10.00).

The Department conducts a competitive intramural program including sports in season.

The college program of intercollegiate athletics is an integral part of the program of Physical Education. No student is permitted to participate in the more strenuous forms of competition without a certificate from the College Physician indicating that the individual is physically fit for such participation.

The student obtains credit in the required courses listed below by participation in activities selected in accordance with the principles set forth in the preceding paragraphs.

1a-1b. Physical Education Activities. *The Staff.* Required, Freshman year ½ unit. Arranged.

a-2b. Physical Education Activities. *The Staff.* Required of Freshmen ot taking Military Science. ½ unit. Arranged.

3a-53b. Physical Education Activities. *The Staff.* Required, Sophomore ear. ½ unit. Arranged.

4a-54b. Physical Education Activities. *The Staff.* Required of Sophomores not taking Military Science. ½ unit. Arranged.

05a-105b. Physical Education Activities. *The Staff.* Required, Junior ear. ½ unit. Arranged.

07a-107b. Physical Education Activities. *The Staff.* Required, Senior ear. ½ unit. Arranged.

WOMEN'S ACTIVITIES

Medical and physical examination is given all entering students with subsequent posture tests. Physical activities are allowed or prescribed as the result these examinations. Participation in a Fundamental Activity is required one mester of the Freshman year. Students may have freedom of election in her activities in so far as medical and physical examinations warrant, but ust include by the end of the Sophomore year one individual sport and ie semester of some form of dancing. The passing of a swimming achievement st is required for graduation. It should be completed by the end of the phomore year.

Activity fees are charged for badminton, and archery ($1.50 semester), golf $10 semester), fencing ($7 semester), social dancing ($10 semester).

Six units of Physical Education Activities are required for graduation. One-lf unit is credited for Fundamentals, which includes courses organized teach the basic fundamentals of physical activity. The remaining 5½ units ay be earned by participation in other activities.

Freshmen and Sophomores must arrange their activities so that classes e taken on M, T, W, and Th.

Fundamentals: contemporary dance, ballet, individual gymnastics, group mnastics.

Team Sports: basketball, softball, speedball, hockey, volleyball.

Individual Sports: archery, badminton, tennis, golf, swimming, fencing.

Dancing: contemporary, folk and square, social, ballet.

Recreational Games: table tennis, paddle tennis, etc.

11-11b. Fundamentals and Other Activities. *The Staff.* Required, Freshman year. ½ unit. Arranged.

11-12b. Sports or Dancing. *The Staff.* Required, Freshman year. ½ unit. Arranged.

61-63b. Physical Education Activities. *The Staff.* Required, Sophomore year. ½ unit. Arranged.

64a-64b. Physical Education Activities. *The Staff.* Required, Sophomor year. ½ unit. Arranged.

115a-115b. Physical Education Activities. *The Staff.* Required, Junio year. ½ unit. Arranged.

117a-117b. Physical Education Activities. *The Staff.* Required, Senio year. ½ unit. Arranged.

Physics

The minimum concentration program in physics includes 25 units of uppe division physics, Mathematics 102, 151, and Chemistry 1. Additional wor in physics, mathematics, chemistry, German, engineering drawing, an descriptive geometry is recommended. A minimum concentration progra in physics will normally be elected by those who plan to use physics i combination with training in some other field, and who do not plan to d graduate work in physics.

A student who plans to do graduate work in physics will be expected t take 31 units of upper division physics, Mathematics 102, 151, and not le than six units selected from Mathematics 118, 119, 152, and 210. The studer also will be expected to establish a good foundation in chemistry and t acquire a reading knowledge of German. Courses in descriptive geometr and engineering drawing are recommended.

All students concentrating in physics will consult with the physics sta about their concentration examination during the first week of their senio year.

1a, 1b. Introduction to Physical Science. *Mr. Fryer.* A non-mathematic course intended for those wishing to obtain a knowledge of physics an related topics from the other physical sciences. The subject will be develope largely from its historical aspects with emphasis upon the method of scienc and the persons who have contributed to the present understanding. Th lectures will be illustrated by numerous experimental demonstrations. Fe $5.00 each semester. 3 units. *MWF, 10.*

51a, 51b. General Physics. *Mr. Fowler.* A study of the phenomena an laws of mechanics, heat, sound, light, electricity and magnetism, and a introduction to atomic physics. This course, together with Physics 52, designed to furnish a working knowledge of the basic principles of physic and is planned especially for those students who expect to continue studies i physics, chemistry, engineering or medicine. Prerequisite: Mathematics preceding or accompanying the course. Open to freshmen only by permissio of the Department Staff. 3 units. *TThS, 8.*

52a, 52b. General Physics Laboratory. *Mr. Henke and the Staff.* Quant tative laboratory problems selected from the subjects treated in Physics 5

hysics 51 or equivalent must accompany or precede this course. Laboratory e $3.00. 1 unit. *MTW* or *Th, 1:15-4:05.*

10. Heat and Thermodynamics. *Mr. Henke.* A course dealing with the rinciples of thermodynamics and the theory of heat. The first and second ws of thermodynamics and their application to liquids, vapors, and gases ill be emphasized. Prerequisites: Physics 51, Mathematics 65. 3 units. First mester. *MWF, 11.*

13a, 113b. Mechanics. *Mr. Henke.* Kinematics, dynamics, and statics of rticles and rigid bodies with applications to problems of physics and engi- ering. Prerequisite: Physics 51, Mathematics 65. 3 units. *TThS, 9.*

11a, 141b. Electricity and Magnetism. *Mr. Fryer.* A course in the theory id application of electricity and electromagnetism. Emphasis will be placed i the fundamental laws of electrostatics and electrodynamics, electrical cuit theory, and introductory electromagnetic field theory. Prerequisites: ysics 51, Mathematics 151 preceding or accompanying the course. 3 units. *ThS, 8.*

12a, 142b. Electrical Measurements. *Mr. Fryer.* Laboratory in electrical d electromagnetic measurements. The first semester is concerned with direct- rrent measurements and the use of standard bridge circuits. The second mester emphasizes alternating-current circuits and vacuum tube devices mmonly employed in physical and engineering laboratories. Laboratory e $4.00. 1 unit. *T, 1:15-4:05.*

13. Optics. *Mr. Fowler.* The fundamentals of geometrical optics. Theory d applications of physical optics with emphasis upon the phenomena of erference, diffraction and polarization of light. Prerequisite: Physics 51, thematics 65. 3 units. First semester. *MWF, 9.*

14. Optical Measurements. *Mr. Henke.* Experimental study of phenomena geometrical and physical optics. Laboratory to accompany Physics 153. boratory fee $4.00. 1 unit. First semester. *Th, 1:15-4:05.*

15. Atomic Structure. *Mr. Henke.* An introduction to modern theories atomic and nuclear structure, elementary particles, and radiations. Pre- uisites: Physics 51, Mathematics 65. 3 units. Second semester. *MWF, 9.*

15. Advanced Physics Laboratory. Mr. Fryer. Independent experimental dy of selected subjects in modern physics. Prerequisite: approval of the tructor. Laboratory fee $4.00. 1 unit. Second semester. *Th, 1:15-4:05.*

191a, 191b. Mathematical Physics. *Mr. Fowler.* Application of mathe- tics to selected subjects in classical and quantum physics. Prerequisites: ysics 51, Mathematics 151 and approval of the instructor. 3 units. *TThS,*

Psychology

Students concentrating in psychology are required to take psychology 51, an 24 units of upper division courses including psychology 109 and 194. As a pa of the latter requirement, 6 units may be offered from the following course Biology 112, Zoology 137, Mathematics 194, Sociology 152. Students shoul note that some of these courses are not offered every year. Training in zoolog physics, chemistry, French and German is recommended for students plannin to do graduate work in psychology.

Psychology 51b is prerequisite to all further work in the department wit the exception of Psychology 102. Child Psychology may be taken concurrentl with 51b.

51a, 51b. Introduction to Psychology. *Staff.* Fundamental facts an principles of consciousness and behavior. The relation of the nervous syste to mental processes and action. Practical applications in various fields. 3 unit Three sections, *MWF, 11,* and *TThS, 9, 10.* Section of 51a will be offere second semester, *MWF, 9.*

102. Psychological Statistics. *Mr. Faust.* Correlation methods, probabilit chi square, tests of significance. Prerequisite: Psychology 51 or permi sion of instructor. 3 units. First semester. *TTh, 1:15-3:05.*

103. Individual Differences. *Mr. Ellis.* A study of the nature and exte of individual differences and their causes as determined by objective method Age, sex, and race differences. Genius, subnormality, insanity and criminalit The organization of mind. Applications in various fields are considered briefl 3 units. First semester. *MWF, 9.*

107. Educational Psychology. *Mr. Ellis.* Practical applications of ps chology to education. The nature of the learner; intelligence and motivatio principal features of the learning process. 3 units. First semester, *TThS,* second semester, *MWF, 9.*

108. Child Psychology. *Mr. Faust.* A survey of development an behavior of the young child. Prerequisite: Psychology 51a or 52. 3 unit First semester, *TThS, 10;* second semester, *MWF, 11.*

109. Introduction to Psychological Methods. *Mr. Greenspoon.* Discussio and demonstration of methods of studying psychological problems and evalu ating data. Laboratory experiments. Laboratory fee $1.50. Prerequisite: Ps chology 51 or permission of instructor. 3 units. First semester. *M, 3:15; W 1:15-3:05.*

117. Physiological Psychology. *Mr. Faust.* Physiological and neural aspec of psychological functions. Permission of instructor required. 3 units. Fir semester. *MWF, 8.*

;1. Abnormal Psychology. *Mr. Greenspoon.* Problems of maladjustment; ctors contributing to mental disorders; methods of diagnosis and therapy. Prequisite: Psychology 51. 3 units. First semester. *MWF, 10.*

;7. Theories of Personality. *Mr. Greenspoon.* A critical examination and aluation of some current theories of personality, such as Freud, Adler, Jung, uthrie, Allport, Lewin, Mowrer. Integration of abnormal behavior and child havior into a comprehensive theory of personality. Prerequisite: Psychology 1. 3 units. Second semester. *MWF, 10.*

4. Social Psychology. *Mr. Greenspoon.* Cultural determinants of behavior; namics of interpersonal relations and group action; methods of studying cial behavior. 3 units. Second semester. *TThS, 9.*

6. Mental Tests. *Mr. Greenspoon.* Survey of principles and methods of easuring intelligence. 3 units. First semester. *MWF, 11.*

8. Mental Tests Practicum. *Mr. Faust.* Supervised experience in admin- ering individual mental tests. Prerequisites: Psychology 102, 137, 156, d permission of instructor. 3 units. Second semester. *M, 2:15-4:05* and anged. (Omitted in 1954-55.)

3. Advanced Child Psychology. *Mr. Faust.* The study of later child- od and adolescence. Prerequisites: Psychology 108. 3 units. Second semester. *ThS, 8.*

). Theories of Learning. *Mr. Greenspoon.* Consideration of the leading ories concerning the nature of learning and its significance for general chology. Prerequisite: 12 units of psychology. 3 units. First semester. *ThS, 10.*

:. Systems of Psychology. *Mr. Faust.* A discussion of contemporary tems of psychology with special emphasis placed upon Behaviorism, Gestalt chology, and Psychoanalysis. Prerequisite: Psychology 51. 3 units. Second mester. *TThS, 10.*

. Experimental Psychology. *Mr. Greenspoon.* Analysis of the design and thodology of recent psychological experiments. Students will perform illus- ive experiments. Laboratory fee $1.50. 3 units. Second semester. *WF, 8-9:50.*

. Reading and Research. *Staff.* Individual work on special topics. May repeated for credit. Prerequisite: permission of instructor. Either semester. units. Arranged.

. Senior Reading Course. *Mr. Ellis.* A course designed to supplement integrate the different courses offered to meet the concentration require- t in psychology and to prepare students for the comprehensive examina- . Required of seniors who are concentrating in psychology. 2-4 units. er semester. *T, 3:15* and arranged.

AVAILABLE AT SCRIPPS COLLEGE

IV-110. Growth and Development of the Child. *Mrs. Jones.* Prerequisite Elementary Psychology. Year course. *MWF, 11.*

IV-112. Child Study in the Nursery School. *Mrs. Jones.* Prerequisite Elementary Psychology and IV-110. Year course. *MW, 2:15* and arranged hours in the Nursery School. Registration by permission of the instructor.

IV-114. Nursery School Procedure. *Mrs. Jones.* Prerequisite, IV-112. Year course. *MW, 3:15-4:05* and arranged hours in the Nursery School. Registration by permission of the instructor.

V-119. Human Psychobiology. *Mr. Caster.* Registration by permission of instructor. Year course. *TThS, 8.*

Religion

Students planning to concentrate in religion must take the following survey courses or their equivalents: Religion 1, 2 and 65; History 1, and Philosophy 57 or 110-111. Twenty-four hours of upper-division work, of which at least eighteen must be in the field of religion, are required. Six units of upper-division courses may be taken in one of the related fields of classics, English, education, government, history, philosophy, psychology, and sociology.

Students transferring to Pomona at the beginning of the Junior year may concentrate in religion if lower division requirements have been met prior to entrance or can be met during the Junior year.

1. The Religion of the Old Testament. *Staff.* A course designed as a general introduction to Old Testament religious ideas. The developing beliefs and practices of Hebrew religion will be considered in their historical sequence beginning with the patriarchal period and ending with Judaism of the second century before Christ. 3 units. First semester. Four sections. *MWF, 8, 9; TThS, 8, 9.*

2. The Religion of the New Testament. *Staff.* A course designed as a general introduction to New Testament religious ideas. Attention will first be given to the teaching of Jesus, followed by a study of the message of Paul and a consideration of the developing religious views of the early Christian community. 3 units. Second semester. Four sections. *MWF, 8, 9; TThS, 8, 9.*

65a, 65b. Great Personalities in Christian History. *Mr. von Rohr.* A survey of the development of Christian beliefs as reflected in the thought of some of the outstanding representatives of the Christian tradition. Among persons studied during the first semester will be Paul, Augustine, Francis of Assisi, and Thomas Aquinas, and during the second semester Luther, Calvin, George Fox, and John Wesley. 3 units. *MWF, 8.*

101. Philosophy of Religion. *Mr. Kaufman.* A course intended to provide understanding of the meaning, nature and function of religion. Analysis of the

uman situation and its religious problems (anxiety, despair, love, hate, personal dependence, etc.) will be followed by study of several answers to these problems, such as existentialism, mysticism, rationalism, humanism, and Christian faith. 3 units. First semester. *TTh, 1:45-3:05.* (Alternates with 103. Omitted in 1954-55.)

103. Interpretation of Christian Ideas. *Mr. Kaufman.* Readings and discussion on the fundamental beliefs and insights of the Christian faith. Such problems as the interpretation of God, Jesus Christ, man, sin, salvation, predestination and free will, and the Church will be considered. 3 units. First semester. *TTh, 1:45-3:05.* (Alternates with 101.)

104. Contemporary Religious Thought. *Mr. Kaufman.* Reading and discussion of writings reflecting varying ways to understand the meaning of the Christian message for the modern world. Representatives of contemporary religious thinking in both Europe and America will be studied. 3 units. Second semester. *TTh, 1:45-3:05.*

107. The Life and Teachings of Jesus. *Mr. Rankin.* A study of the content of the New Testament records concerning Jesus. Attention will first be given to the facts and theories related to his life, followed by a consideration of the content and purpose of his teaching and its relevance for the modern day. Opportunity will be provided for class reports and discussion. 3 units. First semester. *MWF, 10.*

108. The Life and Message of Paul. *Mr. Rankin.* An investigation of Paul's role in the growth of the early Christian Church. Attention will be given both to the major events of his career and to the emergence of his message out of the conflicts of first century religious thought. Opportunity will be provided for class reports and discussion. 3 units. Second semester. *MWF, 10.*

111. Christian Ethics. *Mr. Kaufman.* An analysis of ethical problems from a Christian perspective. Particular attention will be paid to the relation of Christian ethics both to Christian thought and to concrete personal and social experiences. Reference will be made to outstanding thinkers in the Christian tradition and the relation of Christian ethics to philosophical ethics. 3 units. First semester. *MWF, 11.* (Offered in alternate years. To be given in 1954-55.)

112. Christianity and Modern Culture. *Mr. Kaufman.* A study of the analyses of contemporary society and culture by sociologists, economists, psychologists, writers, and philosophers, in the light of a Christian perspective on society and culture and the role of religion in culture. Consideration will be given to the roles of both the individual Christian and the Church. 3 units. Second semester. *MWF, 11.*

113. Religion in Early American Culture. *Mr. von Rohr.* A study of the role of religion in the development of the American nation, from the beginning of the colonial period to the time of the Civil War; the origins and growth of American religious thought; the place of religion in the larger

totality of early American culture; its relation to the emergence of some of the major characteristics of our national life. 3 units. First semester. *MWF, 9.*

160. Catholicism and Protestantism. *Mr. von Rohr.* A study of the significant similarities and differences in the two major strains of the Christian tradition. Attention will first be given to an understanding of Roman Catholic beliefs and practices, followed by a study of Protestantism in both its original and modern forms. 3 units. Second semester. *MWF, 9.*

191a, 191b. Advanced Readings in Religion. *Staff.* An independent reading program for upper class students. Admission by permission of instructor. 3 units. Arranged.

AVAILABLE AT SCRIPPS COLLEGE

IV-140a, b. The Religions of the World. *Mr. Braden. TTh, 8* and arranged hour.

Romance Languages and Literatures

The primary purposes of the department are: mastery of the languages, the understanding and interpretation of Romance literatures and cultures of the countries of Romance speech in Europe and America, and preparation for teaching and other careers requiring specialized linguistic knowledge and skill.

Concentrators: A major in one Romance language is required to take a minimum of 24 units in courses numbered over 100. A major in Romance languages, 36 units.

French major: Prerequisite 81b; required 120, 141.

Spanish major: Prerequisite 91b; required 120, 151.

Romance Languages major: Prerequisite French 81b, Spanish 91b; required: French 120, 141; Spanish 120, 151.

Latin: Although not required, a knowledge of Latin is considered essential, particularly for students who contemplate graduate work.

Final senior examinations: Every concentrator in the department is required to take general oral and written examinations in the appropriate Romance language as follows:

1) A one hour oral examination to test the student's command of the language.

2) A three hour essay examination on some phase of the culture to test the student's grasp of its civilization and his ability to write correct and effective language.

3) A three hour written general examination on the literature.

Honors program: Information concerning such program and projected graduate study may be had from the Departmental staff.

Related subjects recommended for students concentrating in the depart-ent: English Literature, Comparative Literature, Classics, German, History, ilosophy, Russian and courses in Art and Music.

tra-curricular activities: In addition to his classwork, the student may pplement his training by use of the Department's *Language Laboratory* cilities and participation in the Language Clubs. For French Majors and ier students interested in French, attention is called to *La Maison Fran-ise* where students may elect to reside and enjoy the benefit of native French eaking environment. Open to women only.

nguage Placement Test: All students who have had foreign language ining in Romance languages and who consider taking further work in e same language are required to take a Language Placement Test, given the beginning of each semester, to determine at what level they should be ced.

Attention is called to the fact that the intermediate courses in French and anish meet lower Division Requirement 6.

FRENCH

Courses for concentration: Any courses numbered over 100. Prerequisite nch 81b or its equivalent. Of the courses on the literature, French 120 st be taken first.

1b. Elementary. *Mr. Leggewie.* Essentials of grammar; written and versational exercises. A cultural approach based on selected reading ma-ial. 3 units. Two sections. *MWF, 10; TThS, 9.* A section of 1b, followed a section of 51a will be offered in the first semester, *MWF, 9.*

1-51b. Intermediate. *Mrs. Copple, Mr. Leggewie.* Second year college nch. Intensive class reading of selected cultural and literary texts; outside ding related to individual interests. Grammar review and conversational ctice. 3 units. Two sections. *MWF, 10; TThS, 10.* A section of 51a will be ered in the second semester, *MWF, 9.*

, 61b. Intermediate Conversation. *Mrs. Copple.* A course in spoken nch stressing fluency and accuracy. Dialogues, reports and practice work Language laboratory. Students in this course should also enroll in French or a higher course, or must have the consent of the instructor. 2 units. mitted 1954-55.)

-81b. Advanced. *Mrs. Copple.* Conducted in French as far as possible. nsive grammar review; extensive class and outside readings; oral and tten reports in French. Prerequisite 51b or the equivalent. 3 units. *MWF,*

ADVANCED COURSES

rench 81b or its equivalent is required for admission to all advanced rses. Such courses are conducted entirely in French.

120a-120b. Survey of French Literature and Civilization. *Mrs. Copple.* Outline of the development of French literature and culture. Readings o selections to give the student a comprehensive view of the history of th literature and life of the French. 3 units. (Omitted 1954-55.)

127a, 127b. Modern French Theatre. *Mrs. Copple.* The French theatr from early nineteenth century to the present times. Study of representativ works of such playwrights as Hugo, Dumas, Scribe, Claudel, Giraudoux an Sartre. Oral and written reports in French. Alternates with French 15 3 units. (Omitted 1954-55.)

130. The Contemporary Novel. *Mr. Leggewie.* Study of such outstandin writers as Bourget, Gide, Mauriac, Proust, Romains, Sartre and Camu 3 units. First semester. (Omitted 1954-55.)

141. Advanced Conversation and Composition. *Mr. Leggewie.* A cours designed to develop skill and accuracy in literary composition and ora expression. Required of majors. 3 units. First semester. *MWF, 11.*

150. French Poetry. *Mr. Leggewie.* Class study of the masterpieces o French poetry from the sixteenth century to the present times. Study of th technique of French versification and the evolution of poetical though 3 units. Second semester. (Omitted 1954-55.)

153a, 153b. Literature of the Seventeenth Century. *Mrs. Copple.* Inten sive study of the great masters of the French classical age: Corneille, Molièr Racine. Lesser study of Descartes, Pascal, La Rochefoucauld, La Fontaine an others. Historical background; lectures; oral and written reports in Frenc Alternates with French 127. 3 units. *TTh, 1:15-2:30.*

155. Literature of the Renaissance. *Mr. Leggewie.* A study of the majo authors, works and movements of the French Renaissance with speci emphasis on Rabelais and Montaigne. Alternates with French 156. 3 unit Second semester. *MWF, 11.*

156. Literature of the Eighteenth Century. *Mr. Leggewie.* A study o the Age of Enlightenment with particular emphasis on Montesquieu, Didero Voltaire and Rousseau. Conducted in French. Alternates with French 15 3 units. Second semester. (Omitted 1954-55.)

AVAILABLE AT SCRIPPS COLLEGE

I-120. Survey of French Civilization and Literature. *Mrs. Glenn.* Yea course. *MWF, 10.*

I-124. From Rousseau to Zola. *Mrs. Glenn, Mr. Leggewie.* Year cours *MW, 1:15-2:45.*

ITALIAN

61a-61b. Elementary. *Mr. Maggipinto.* A rapid survey of the grammar wit special emphasis on the pronunciation. Extensive reading of modern pros 3 units. (Omitted 1954-55.)

SPANISH

Courses for concentration: Any courses numbered over 100. Prerequisite panish 91b or its equivalent. Of the courses on the literature, Spanish 120 ust be taken first.

a-11b. Elementary. *Mr. Young.* Essentials of grammar; written and conver- ional exercises. A cultural approach based on selected reading material. units. *TThS, 10.*

a-71b. Intermediate. *Mr. Young.* Second year college Spanish. Intensive ding of selected cultural and literary texts; outside reading related to indi- lual interests. Grammar review and conversational practice. 3 units. *ThS, 9.*

1, 81b. Intermediate Conversation. *Mr. Maggipinto.* A course in spoken anish stressing fluency and accuracy. Dialogues, reports and practice work Language laboratory. Students in this course should also enroll in Spanish 71 a higher course, or must have the consent of the instructor. 2 units. *MWF,*

1-91b. Advanced. *Mr. Maggipinto.* Conducted in Spanish as far as possible. ensive grammar review; extensive class and outside readings; oral and writ- reports in Spanish. Prerequisite 71b or the equivalent. 3 units. *MWF, 9.*

ADVANCED COURSES

Spanish 91b or its equivalent is required for admission to all advanced rses. Such courses are conducted entirely in Spanish.

a-120b. Survey of Spanish Literature. *Mr. Maggipinto.* A general line course in the history of Spanish literature from its origins to modern es. 3 units. *MWF, 11.*

. Advanced Conversation and Composition. *Mr. Young.* A course designed develop skill and accuracy in literary composition and oral expression. Re- red of majors. 3 units. First semester. *WF, 1:15-2:30.*

. Cervantes. *Mr. Young.* A study of the life and works of Cervantes with cial attention to Don Quijote. 3 units. Second semester. *WF, 1:15-2:30.*

. Mexican Literature. *Mr. Maggipinto.* A study of the literature of ico with emphasis on modern prose. Main writers: Sor Juana, Lizardi, nboa, Nájera, Nervo, Azuela, Guzmán, Vasconcelos, Reyes. Alternates 1 174. 3 units. First semester. *TTh, 4:15-5:30.*

7 The Spanish-American Novel. *Mr. Maggipinto.* A study of the novel panish America, excluding Mexico. Main writers: Sarmiento, Fombona, es, Rivera, Icaza, Barrios, Gálvez, Guiraldes, Gallegos, Lynch. Alternates 1 173. 3 units. First semester. (Omitted 1954-55.)

81, 180b. The Golden Age. *Mr. Young.* The Renaissance, the Baroque, and Neo-Classic periods in Spanish literature. Main topics: first semester, develop- t of Spanish literary forms, chivalry, humanism, the picaresque, and the tics; second semester, balladry and the theatre. 3 units. *TThS, 8.*

190. The Generation of '98. *Mr. Maggipinto.* A study of the beginning of the contemporary period in Spanish literature. Main writers: Valle-Inclán Azorín, Baroja, Unamuno, Ortega y Gasset. 3 units. Second semester. *TTh 4:15-5:30.*

AVAILABLE AT SCRIPPS COLLEGE

I-157a, 157b. Spanish Literature of the Nineteenth and Twentieth Centuries. *Mrs. Lamb. MWF, 11.*

I-175a, 175b. Survey of Spanish American Literature. *Mrs. Lamb. TTh 2:15-3:30.*

* * *

In the Romance field the graduate work offered under the Claremont Graduate School centers on the following periods of the literature: French 17th Century, 18th Century, 19th Century, Contemporary Period. Spanish Pre-Golden Age, Golden Age, Spanish and Spanish American of 19th Century, and Contemporary Period.

Russian

1a-1b. Elementary Russian. *Mr. Ein.* Essentials of grammar, pronunciation, constant exercises in reading and writing, practice in speaking. Individual assignments in reading, writing and speech which will correspond to each student's needs and interests. 3 units. *TThS, 9.*

51a, 51b. Intermediate Russian. *Mr. Ein.* More advanced study of Russian grammar. Daily reading, translating and writing. Continued practice in Russian conversation. Reading of Russian texts which serve as an introduction to Russian life, history, and literature. Individual assignments will correspond to each student's needs and interests (e.g. Sciences, History, Politics, Military Russian, etc.). 3 units. *TThS, 10.*

101a, 101b. Readings in Selected Russian Literature. *Mr. Ein.* Prerequisite 51a and 51b or equivalent. 1 unit. May be repeated for credit. Arranged.

Sociology

Requirements for concentration: Sociology 51, normally taken in the Sopho more year, and 24 units of upper division courses in sociology. However, 3 o these 24 units may be chosen from the following: Economics 111, Governmen 157, Psychology 154.

Recommended courses: Students concentrating in sociology will find i helpful to take as many of the following courses as possible: Economics 5 and 52, Economics 57; Government 51 and 52; or Economics 51 and Govern ment 52; History 1; Psychology 51.

Lower Division Requirements: In sociology the requirement can be met in wo ways: (a) by 51 and 52, which constitute an integrated year course, or b) by 51 and any *two* higher numbered courses.

51. Introductory Sociology. *Staff.* Man's cultural heritage and collective behavior. The origin, structure, and functioning of human groups, and their ole in personality and cultural development. The principal social processes, uch as competition, conflict, cooperation, and assimilation. Results of social hange. Not open to Freshmen. 3 units. First semester. Four sections. *MWF, 1, 1:15; TThS, 9, 10.*

52. Social Problems. *Mr. Scaff.* A survey of the major problems of resent-day society related to individual, family, community, and world disrganization. Typical problems studied are crime, delinquency, alcoholism, arital adjustment, race antagonism, labor relations, migration, and populaon pressures. Intended to follow Sociology 51 for students who plan to take nly one year of sociology. Not recommended for students who intend to ake several specialized courses such as Race Relations, Criminology, etc. units. Second semester. Two sections. *TThS, 9, 10.*

102. Cultural Anthropology. *Mr. Baber.* The emergence of man and the evelopment of his essential culture patterns, from Stone Age to Iron Age. he rise of language, writing, art, and the basic social institutions. A comarison of human behavior in widely separated primitive cultures to reveal e constant as well as the variable features of human society. The invention, iffusion, and integration of culture traits in the process of cultural change. rerequisite: Sociology 51. 3 units. First semester. *MWF, 9.*

106. Social Welfare. *Mr. Scaff.* A survey of the various fields of social ork and the major techniques and theories involved. Includes a description d analysis of case work, family welfare, child welfare, child guidance inics, school social work, probation supervision, medical and psychiatric se work, group work, public welfare, and community organization. Visits selected agencies. Prerequisite: Sociology 51. 3 units. Second semester, *WF, 8.*

107. Criminology and Penology. *Mr. Baber.* Types of criminal behavior. he making of the criminal; causative factors. Changing interpretations of ime. Methods of dealing with criminals through the police, courts, prisons, obation, and parole. Special treatment of juvenile delinquents; preventive easures. Prerequisite: Sociology 51, or *two* of the following: Economics 51, overnment 51, History 1. 3 units. Second semester. Two sections. *MWF, 11.*

109. Marriage and the Family. *Mr. Baber.* Factors involved in mate selecon and the husband-wife and parent-child relationships. Adjustment of arriage and family patterns to our rapidly changing culture. Analysis of e factors promoting family disorganization; measures seeking to conserve e social values of family life. Prerequisite: Junior or Senior standing. 3 units. rst semester. *MWF, 9.* (Offered in alternate years; omitted in 1954-55.)

110. Race Relations. *Mr. Baber.* Concepts of race and culture. The nature of race contact and the development of race consciousness. Prejudice and conflict patterns. The experience of several nations with racial minorities, with emphasis upon American experience with Negroes, Mexicans, and Orientals. Areas and trends of discrimination. Prerequisite: Sociology 51, or *two* of the following: Economics 51, Government 51, History 1. 3 units. Second semester. *WF, 2:15-3:30.*

111. Population and Migration Problems. *Mr. Scaff.* Factors influencing population growth or decline. The social and economic effects of an increasing, static, or declining population. The significance of the rates of increase in the different racial, economic, or social elements of the population. Suggested policies for controlling the quantity and quality of the population. Trends of internal migration, especially to the Pacific Coast. Prerequisite: Sociology 51, or sufficient background in the other social sciences to satisfy the instructor. 3 units. First semester. (Omitted in 1954-55.)

112. The American Community. *Mr. Scaff.* An analysis of modern American urban communities in contrast with rural communities. Urban ecology applied to the Los Angeles area. The community's class structure and institutional composition. Community planning. Supervised observation and field study in the local area. Prerequisite: Sociology 51. 3 units. First semester. *MW, 2:15-3:30.*

152. Social Control. *Mr. Baber.* An analysis of human nature and its social origin. The evolution of social control and its increasing complexity, due to the acceleration of social change in modern culture. Society's means of creating and maintaining its social patterns, through law, public opinion, propaganda, education, religion, rewards, etc. Individual control versus social control. Open to Juniors and Seniors only. Prerequisite, Sociology 51. 3 units. Second semester. *WF, 2:15-3:30.* (Offered in alternate years. Omitted in 1954-55.)

153. Theories of Social Reform. *Mr. Scaff.* A study of various proposals for social reconstruction including: the Utopians, Marxian Socialism, Fabian Socialism, Syndicalism and Guild Socialism. An investigation of contemporary experiments in social reorganization: the British Labor Movement, German Nazism, Italian Fascism, Russian Communism, and the Cooperative Movement at home and abroad. Prerequisites: Sociology 51, or *two* of the following: Economics 51, Government 51, History 1. Open to Juniors and Seniors only, 3 units. First semester. *MWF, 10.*

154. Twentieth Century Sociology. *Mr. Scaff.* The rise of modern sociology from the time of Comte and Spencer. Attention to various movements of social thought. Emphasis on the major contributions from Europe and America to sociological theory since 1900. Prerequisite: Sociology 51. Open to Juniors and Seniors only. 3 units. Second semester. *MWF, 10.*

191a-191b. Social Investigation. *Mr. Baber.* Methods of investigation and research as applied to both individual and group work. The effective presentation of social data. Observation and analysis of the work of various social agencies and programs. Individual projects for some; supervised field experience (in selected agencies) for others, according to the interests and needs of the student. Open only to seniors with the written permission of the instructor. 3 units. Arranged.

Speech and Dramatics

Requirements for concentration:

Lower Division Courses: Speech and Dramatics 32a, 32b, 51 (at least two units), 57, 61a, 61b, and History 1a-1b, in fulfillment of which requirements transfer students may offer equivalent courses pursued at other colleges.

Upper Division Courses: Speech and Dramatics 134a, 134b, 160a-160b, English 155a, 155b and Scripps II-150 or Comparative Literature 181a, 181b, or Speech and Dramatics 112a-112b or 131a, 131b. Fluency in at least one modern foreign language (preferably French) is recommended.

Concentration with emphasis on Drama:

Lower Division Courses: An introductory course in speech (to be chosen in consultation with advisor). Speech and Drama 61a, 61b, and at least two units of 51a, 51b. English 57 is recommended.

Upper Division Courses: Speech and Drama 160a, 160b, II-150a, b and English 155a, 155b. At least six hours of electives should be chosen from: Speech and Drama 112a-112b, II-149, II-151a, 151b, Classics I-107, I-106. English 226.

In the comprehensive examination the books on a supplementary reading list will be included.

In addition to the comprehensive examination, a demonstration of creative ability in the field of concentration is required.

In addition to the required work in the Speech and Dramatics concentration, the following offerings are suggested as suitable electives, the choice among them depending on the student's particular interests: *Lower Division:* Art 1-3b, Art 61a, 61b, and 51a-51b, Music 53a-53b, Speech and Dramatics 52a, 52b and 53a, 53b, English 50a, 50b, 58 and 64. *Upper Division:* Art 105a-105b, Music 103a-103b, Physical Education 130a, 130b, Spanish 113 and 114, French 120a-120b, Scripps I-106 and I-107, English 103a, 103b, 111, 151, 181a, 181b, Speech and Dramatics 112a, 112b.

32a, 32b. Voice and Diction. *Staff.* Study of the mechanics of voice production and of the elements of English phonetics. Practice designed to develop good voice and diction. Permission of the instructor required for registration. 2 units. *MW, 11.*

51a, 51b. Play Production. *Staff.* Directed study in play production, both in acting and in the technical problems of the stage. One unit of credit may be granted for either fifty hours of rehearsal time under direction, or fifty hours of technical work under direction, or for fifty hours of rehearsal and technical work combined. Not more than two units of credit may be granted in any one year. A total of eight units of credit may be applied toward graduation.

52a, 52b. Fundamentals of Speech. *Mr. Cornell.* Exercise in voice development and platform deportment. Training in analysis of subjects, selection and arrangement of material, psychological adaptation of material and treatment to specific audiences. 2 units. *MW, 9.*

53a, 53b. Principles of Interpretative Reading. *Mr. Cornell.* Study of the technique of effective oral interpretation of literature. Application of this technique in the reading of various literary types. 2 units. *TTh, 10.*

55a, 55b. Argumentation and Debate. *Mr. Cornell.* Study of the principles of argumentation and practical application of these principles in class debates. Debate subjects for the year analyzed and debated. 2 units. *Th, 2:15-3:55.*

61a, 61b. Character Presentation in Dramatic Literature. *Mrs. Allen.* An approach to dramatic literature through the actor's art. A study of theories of acting and principles of stage behavior. Pantomime and improvisation to develop concentration, observation, imagination, co-ordination, and control. Scenes from plays, both classic and modern, will be studied with emphasis on interpretation. Permission of instructor required. 3 units. *TThS, 10.*

112a-112b. Playwriting. *Mrs. Allen.* The theory of playwriting with supervised practice in this technique. A study will be made of the structure and style of significant plays for their light on the problems of the beginning playwright. Permission of instructor required. Alternates with Speech and Dramatics 160. 3 units. *TThS, 9.*

131a, 131b. Advanced Speech. *Mr. Cornell.* Training in the construction and delivery of formal addresses. Prerequisite, Speech and Dramatics 52 or equivalent. 2 or 3 units. *TTh, 9.*

134a, 134b. Reading of Dramatic Literature. *Staff.* Intensive study of a limited number of standard plays, with emphasis on dramatic values in character and plot. Interpretative reading of these plays in class. Recital programs before the class. Prerequisite, Speech and Dramatics 53 or equivalent. 3 units. *MWF, 10.*

160a, 160b. Advanced Acting and Directing. *Mrs. Allen.* The first semester will be devoted to a detailed study of characterization and styles of acting. Practice in creating and sustaining roles in plays of different types, styles and periods. The second semester will be devoted to fundamental principles of play directing. Lectures and application of theories in class exercises. Each student will be required to direct a one-act play for class presentation and criticism and to prepare a complete production script of the play. 3 units. *TThS, 9.*

Introduction to Drama. For description see English 57.

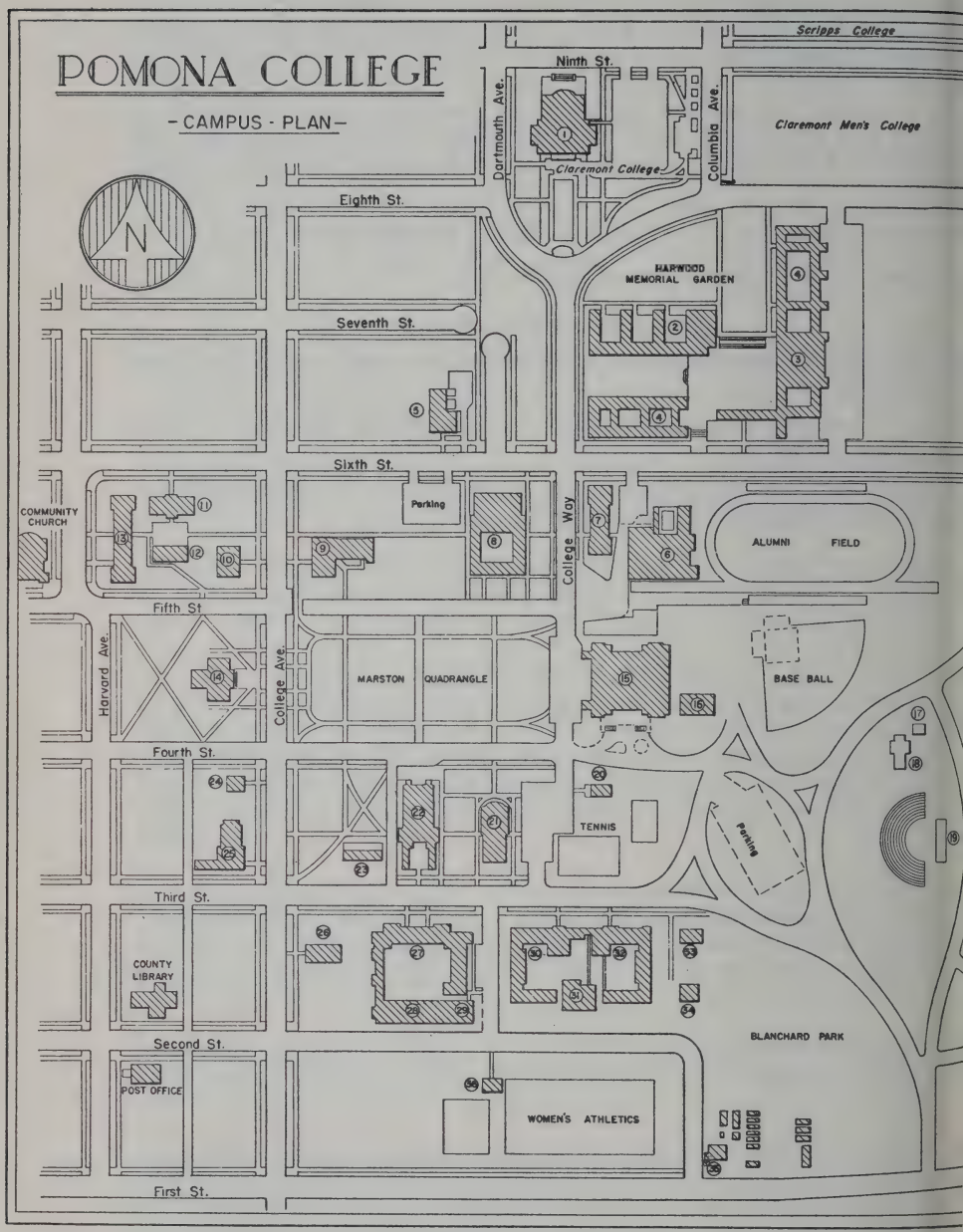
Shakespeare. For description see English 155a, 155b.

AVAILABLE AT SCRIPPS COLLEGE

II-150a, 150b. Development of the Theatre and the Drama. *Mr. Workman. MWF, 11.*

II-149. Theory of Dramatic Production. Prerequisite, Speech and Drama 160a, 160b. *MWF, 1:15.*

II-151a, 151b. Changing Techniques and Styles in Acting. Prerequisite, Speech and Drama 160a, 160b. (Omitted in 1954-55.)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Dartmouth Ave.
Columbia Ave.
Claremont Men's College
Claremont College
Eighth St.
HARWOOD MEMORIAL GARDEN
Seventh St.
Sixth St.
COMMUNITY CHURCH
Parking
College Way
ALUMNI FIELD
Fifth St.
Harvard Ave.
College Ave.
MARSTON QUADRANGLE
BASE BALL
Fourth St.
TENNIS
Parking
Third St.
COUNTY LIBRARY
BLANCHARD PARK
Second St.
POST OFFICE
WOMEN'S ATHLETICS
First St.

POMONA COLLEGE CAMPUS PLAN

(See map on opposite page)

1. Honnold Library for the Associated Colleges.
2. Helen R. Walker Hall, residence for men.
3. Frary Hall, central dining hall for men.
4. Eli P. Clark Hall, residence for men.
5. Baxter Medical Building for the Associated Colleges.
6. Memorial Gymnasium and Swimming Pool.
7. Smiley Hall, residence for men.
8. Edmunds Union, including student offices, cooperative store, ballroom, and lounges.
9. Holmes Hall, classrooms and assembly hall.
10. Pearsons Hall, physics laboratory, mathematics department.
11. Crookshank Hall, botany, biology, and zoology laboratories.
12. Harwood Hall, department of psychology.
13. Mason Hall, chemistry and geology laboratories.
14. Carnegie Building. Class rooms and offices.
15. Mabel Shaw Bridges Auditorium, seating 2600, operated by Claremont College in behalf of the Associated Colleges.
16. Renwick Gymnasium.
17. Seaver Laboratory, containing classrooms and library for the department of astronomy.
18. Frank P. Brackett Observatory.
19. Open-Air Theatre.
20. Replica of original home of Pomona College.
21. Sumner Hall, administration and classroom building.
22. Mabel Shaw Bridges Hall of Music, assembly hall for recitals and chapel services; music studios and practice rooms.
23. Rembrandt Hall, art studios.
24. President's House.
25. Claremont Inn, guest house for college and community, private and public dining rooms.
26. Baldwin House, residence for women.
27. Harwood Court, residence hall for women.
28. Aurelia Squier Harwood Memorial Dining Hall for women.
29. Mary McLean Olney Dining Hall for women.
30. Della Mulock Mudd Hall, residence for women.
31. Jessie E. Gibson Dining Hall for women.
32. Florence Carrier Blaisdell Hall, residence for women.
33. Brackett House, residence for women.
34. Kenyon House, residence for women.
35. Heating Plant and Maintenance Shops for the Associated Colleges.
36. Field House for women's athletics.

The Business Office for the Associated Colleges is located in Harper Hall at College and Tenth Streets.

The Infirmary for the Associated Colleges is located on Amherst Avenue north of Foothill Blvd.

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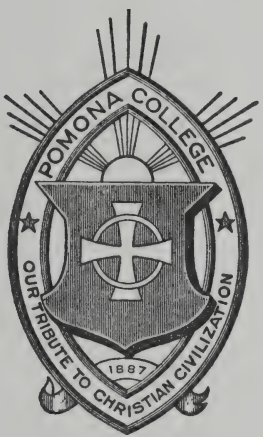

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JULY

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SEPTEMBER

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OCTOBER

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NOVEMBER

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COLLEGE CALENDAR FOR 1955-56

Claremont Summer Session 1955
First Term: June 20-July 29
Second Term: August 1-September 3

First Semester

September 16, Friday	Residence halls open for new students only. First meal served, dinner at 6 p.m.
September 16-19	Program for new students.
September 17, Saturday	Faculty Meeting, 10 a.m.
September 19, Monday	Conference Day and Registration for new students.
September 20 and 21 Tuesday and Wednesday	Registration for returning students. Residence halls open for returning students. First meal served to returning students, breakfast, Tuesday.
September 22, Thursday	First semester classes begin, 8 a.m. Opening Convocation, 11 a.m.
October 6, Thursday	Last day for entering courses.
October 13, Thursday	Founders Day, Flame Ceremony, 11 a.m.
November 15, Tuesday	Low Grade Reports due.
November 21, Monday	Final day for withdrawal from classes without penalty.
November 23, Wednesday	Thanksgiving recess begins, 9:30 p.m.
November 28, Monday	Thanksgiving recess ends, 8 a.m.
December 17, Saturday	Christmas vacation begins, noon.
January 4, Wednesday	Christmas vacation ends, 8 a.m. Reading period begins.
January 21, Saturday	Last day of classes.
January 23, Monday	Final examinations begin.
February 1, Wednesday	Final examinations end.
February 4, Saturday	First semester ends.

COLLEGE CALENDAR FOR 1955-56

Second Semester

February 6, Monday	Opening day for classes at Scripps College. Pomona students enrolled in Scripps courses are expected to attend.
February 7, Tuesday	Registration for Juniors and Seniors.
February 8, Wednesday	Second semester classes begin, 8 a.m. Registration for Freshmen and Sophomores, afternoon only.
February 9, Thursday	Opening Convocation, second semester, 11 a.m. Registration for Freshmen and Sophomores, afternoon only.
February 22, Wednesday	Last day for entering courses.
March 10, Saturday	Matriculation Day.
March 28, Wednesday	Low Grade Reports due.
March 31, Saturday	Spring vacation begins, noon.
April 9, Monday	Spring vacation ends, 8 a.m.
April 11, Wednesday	Final day for withdrawal from classes without penalty.
May 7, Monday	Reading period begins.
May 19, Saturday	Last day of classes for Seniors.
May 26, Saturday	Last day of Classes.
May 27, Sunday	Memorial Convocation, 5 p.m.
May 28, Monday	Final examinations begin.
June 3, Sunday	Associated Colleges Baccalaureate.
June 6, Wednesday	Final examinations end.
June 9, Saturday	Alumni Day.
June 10, Sunday	Commencement.
June 14, Thursday	Scholarship Committee Meeting.
June 15, Friday	Joint meeting of the Classification and Student Affairs Committee.
September 21-24	Program for new students
September 24	Registration begins.

BOARD OF TRUSTEES

Officers

Rudolph J. Wig, *President*
Arthur J. McFadden, *Vice-President*
Fred W. Smith, *Vice-President*

Term of Office Expires June, 1955

Frank R. Seaver, *Los Angeles*
Robert P. Jennings, *Sierra Madre*
Paul S. Armstrong, *Los Angeles*
Clarence T. Stover, *Claremont*
Carl I. Wheat, *San Francisco*
Herbert S. Rempel, *Pasadena*

Term of Office Expires June, 1956

William B. Himrod, *Hollywood*
Arthur J. McFadden, *Santa Ana*
Charles E. Donnelly, *Los Angeles*
Yale B. Griffith, *Santa Barbara*
E. Wilson Lyon, *Claremont*
James W. Fifield, Jr., *Los Angeles*

Term of Office Expires June, 1957

Willis H. Merrill, *Long Beach*
George L. Eastman, *Hollywood*
William W. Clary, *Pasadena*
Rudolph J. Wig, *San Marino*
Frederick S. Bale, *Pasadena*
Charles Detoy, *Pasadena*

Term of Office Expires June, 1958

Lloyd L. Austin, *Pasadena*
Arthur M. Dole, *Pomona*
Mrs. Victor Montgomery, *Beverly Hills*
Mark H. Harrington, *Pasadena*
Morris B. Pendleton, *San Marino*
Cyril Chappellet, *Los Angeles*

Term of Office Expires June, 1959

Fred W. Smith, *Ojai*
Elmo H. Conley, *Pasadena*
William A. Johnson, *San Marino*
Roy E. Thomas, *Los Angeles*
Paul Fussell, *Pasadena*
John W. Dodds, *Palo Alto*

Honorary Members

Donald G. Aplin, *Highland*
George W. Bryant, *San Marino*
Robert H. Craig, *Portuguese Bend*
Mary Clark Eversole, *La Canada*
Luther Freeman, *Claremont*
Ernest E. Jones, *Claremont*
George R. Martin, *Los Angeles*
William S. Mason, *Pasadena*
Seeley G. Mudd, *San Marino*
Mary McLean Olney, *Berkeley*
George S. Sumner, *Claremont*

Ex-Officio Members

Managing Director, Claremont College
President of the Alumni Association
President of the Women's Campus Club
President of the Pomona College Associates

FORMER PRESIDENTS OF THE COLLEGE

Cyrus G. Baldwin, *1890 - 1897*
George A. Gates, *1901 - 1910*
Franklin L. Ferguson, *1897 - 1901*
James A. Blaisdell, *1910 - 1928*
Charles K. Edmunds, *1928 - 1941*

GENERAL ADMINISTRATION

1955-56

E. Wilson Lyon, *President* — *209 Sumner Hall*
B.A., University of Mississippi; B.A. and B. Litt., University of Oxford; Ph.D. University of Chicago; LL.D., Colgate University; D.Litt., Occidental College.

Allen F. Hawley, *Vice-President in Charge of Development* — *203 Sumner Hall*
B.A., Pomona College; Graduate Student, Harvard University.

Paul H. Burton, *Controller* — *Harper Hall*
B.A. Western Reserve University.

William V. Shannon, *Treasurer* — *Harper Hall*
B.S., Virginia Military Institute.

William B. Himrod, *Assistant to the President* — *203 Sumner Hall*
B.A., Pomona College. Graduate Student, University of Southern California.

John F. Moulds, *Assistant to the President* — *203 Sumner Hall*
Ph.B., University of Chicago.

Kenneth G. Beyer, *Assistant to the President* — *203 Sumner Hall*
B.A., M.A., Whittier College.

Warren B. Knox, *Assistant to the President and Secretary of Pomona College Associates* — *203 Sumner Hall*
B.A., M.A., Whittier College.

Glenn V. Fuller, *Bursar* — *Harper Hall*
B.A., Ohio State University.

Marjorie B. Woodford, *Assistant Treasurer* — *Harper Hall*
B.A., Pomona College; M.A., Columbia University.

Morton C. Johnson, *Alumni Secretary* — *212 Sumner Hall*
B.A., Pomona College.

Kenneth E. Overaker, *Director of the News Bureau* — *200 Sumner Hall*

Agnes M. Johnson, *Executive Secretary to the President* — *204 Sumner Hall*

Ina T. Nider, *Social Director, Women's Campus* — *Harwood Court*
B.A., Fresno State College; M.A., Columbia University.

Jesse A. Cone, Jr., *Director of Men's Campus* — *Eli P. Clark Hall*
B.A., M.A., Stanford University.

May C. Frank, *Director of Residence Halls* — *Mudd Hall*
B.S., Columbia University; M.S. Iowa State College.

Lucille Gramse McCarthy, *Director of Dining Halls* — *Frary Hall*
B.S., M.S., Kansas State College of Applied Science.

Harold Honoré, *Campus Engineer* — *303 E. First St.*

The Faculty

Date denotes beginning of original term of service

ADMINISTRATIVE OFFICERS

ELIJAH WILSON LYON — 345 College Ave
President, 1941.
B.A., University of Mississippi; B.A., and B. Litt., University of Oxford; Ph.D., University of Chicago; LL.D., Colgate University; Litt.D., Occidental College.

FRANCIS RAYMOND IREDELL — 1060 College Ave
Dean of the Faculty, and Professor of Philosophy on the Robert C. Denison Foundation, 1925.
B.A., Pomona College; M.A., Ph.D., Harvard University.

J. EDWARD SANDERS — 310 Radcliffe Driv
Dean of Students and Dean of Admissions, 1942.
B.A., Hendrix College; M.A., Ph.D., Columbia University.

SHELTON L. BEATTY — 741 Dartmouth Ave
Dean of Men, 1949.
B.A., University of Tennessee; M.A., Cornell University; doctoral candidate, Stanford University.

JEAN B. WALTON[3] — 147 E. Twelfth St
Dean of Women on the Martha N. Hathaway Foundation, 1949.
B.A., Swarthmore College; M.A., Brown University; Ph.D., University of Pennsylvania

DEBORAH WING
Acting Dean of Women, 1955.
B.A., Swarthmore College; M.A., Radcliffe College.

MASAGO ARMSTRONG — 160 E. Foothill Blvd
Registrar, 1955
B.A., M.A., Stanford University.

WILLIAM L. WHEATON — 328 Oakdale Dr
Associate Dean of Admissions, 1949.
B.A., Pomona College; M.A., New York University.

DAVID W. DAVIES — 524 W. Tenth St
Librarian, 1947.
B.A., University of California at Los Angeles; M.A., University of California; Ph.D. University of Chicago.

GILBERT S. COLTRIN — 455 W. Twelfth St
Physician of the Associated Colleges, 1940.
B.A., Pomona College; M.D., University of Rochester. Interne, Resident in Medicine University of California Hospital; Fellow in Urology, Presbyterian Hospital, New York City; Exchange Fellow in Physiology, University of Kiel, Germany.

D. SCOTT FOX — 1390 Via Zurita
Assistant Physician of the Associated Colleges, 1952.
B.S., Ph.D., Cornell University; M.D., Stanford University.

W. ROBERT RANKIN — 645 N. College Ave
Chaplain of Associated Colleges Church, 1951.
B.A., State University of Iowa; B.D., M.A., Yale University.

EMERITI

WALTER ALFRED ALLEN — 175 E. Twelfth St.
Emeritus Professor of Musical Theory and Appreciation, 1912.
B.A., Beloit College; B.Mus., Yale University. Associate, American Guild of Organists.

GRACE ELLA BERRY — 353 W. Eleventh St.
Emeritus Dean of Women and Associate Professor of Mathematics, 1909.
B.S., M.A., Mount Holyoke College.

JAMES WHITE CROWELL — 450 University Circle
Emeritus Professor of Romance Languages, 1929.
B.S., M.A., Haverford College; Ph.D., Cornell University.

BERNARD CAPEN EWER — 706 Indian Hill Blvd.
Emeritus Professor of Psychology, 1916.
B.A., M.A., Brown University; Ph.D., Harvard University.

MARION JEANETTE EWING — 455 W. Seventh St.
Emeritus Assistant Librarian, 1912.
B.A., Olivet College; B.S., Simmons College; M.A., Boston University.

CHARLES TABOR FITTS — 445 Harrison Ave.
Emeritus Professor of Education, 1919.
B.A., Amherst College; M.A., University of California. Graduate study, Harvard University.

WILLIAM ATWOOD HILTON — 1293 Dartmouth Ave.
Emeritus Professor of Zoology on the Willard George Halstead Foundation, 1905.
B.S., Ph.D., Cornell University.

ERNEST E. JONES — 905 College Ave.
Treasurer Emeritus, 1909.
B.A., Pomona College.

CYRIL JURECKA — 163 W. Eleventh St.
Emeritus Assistant Professor of Art, 1932.
Graduate, Imperial and Royal College of Sculpture, Horice, Bohemia.

WILLIAM KIRK — 705 Indian Hill Blvd.
Emeritus Professor of Sociology on the Henry Snyder Foundation, 1922.
B.A., Ph.D., Johns Hopkins University.

ELLIOTT CURTIS LINCOLN — 472 W. Tenth St.
Emeritus Professor of English on the Phebe Estelle Spalding Foundation, 1924.
B.A., Colby College; M.A., State College of Washington and Harvard University.

BRUCE MCCULLEY
Emeritus Professor of English Literature, 1921.
B.A., Hiram College; M.A., University of Chicago; Ph.D., Harvard University.

EUGENE WHITE NIXON — 3163 Indian Hill Blvd.
Emeritus Professor of Physical Education for Men, 1916.
B.A., Monmouth College; M.A., Columbia University. Graduate study, Illinois and California Universities.

EVERETT SAMUEL OLIVE — South Laguna
Emeritus Professor of Piano, 1923.
B.Mus., Simpson College. Graduate study, Simpson College.

BENJAMIN DAVID SCOTT
Emeritus Professor of Public Address, 1923.
B.A., University of Southern California; S.T.B., Ph.D., Boston University. Gradua work, Brown and Harvard Universities.

GEORGE STEDMAN SUMNER 245 N. College Av
Emeritus Professor of Economics and Sociology, 1897.
Controller, 1922-1941.
B.A., Pomona College; B.A., Ph.D., Yale University.

WALTER TICKNOR WHITNEY 445 W. Tenth S
Emeritus Professor of Astronomy on the Frank P. Brackett Foundation and Director the Observatory, 1929.
B.S., M.S., Pomona College; Ph.D., University of Chicago.

ALFRED OSWALD WOODFORD 443 W. Tenth S
Emeritus Professor of Geology, 1915.
B.A., Pomona College; Ph.D., University of California.

PROFESSORS

RAY ERWIN BABER 999 College Av
Professor of Sociology on the Henry Snyder Foundation, 1939.
B.A., Campbell College; M.A., Ph.D., University of Wisconsin.

CARL BAUMANN 567 W. Eighth S
Professor of German, 1931.
Ph.D., University of Basel.

LYMAN BENSON 1430 Via Zurit
Professor of Botany on the Henry Kirke White Bent Foundation, 1944.
B.A., M.A., Ph.D., Stanford University.

FLOYD A. BOND 234 W. Eighth S
Professor of Economics on the Stedman-Sumner Foundation, 1948.
B.A., M.A., Ph.D., University of Michigan.

FREDERICK BRACHER 230 W. Seventh S
Professor of English, 1944.
B.S., Oregon State College; M.A., Ph.D., University of California.

CH'EN SHOU-YI[2] 769 W. Ninth S
Professor of Chinese Culture, 1941.
B.A., Lingnan University; Ph.D., University of Chicago; Fellow of the Academ Sinica.

HAROLD DAVIS 612 W. Tenth S
Professor of English on the Phebe Estelle Spalding Foundation, 1927.
B.A., Stanford University; B.A. and B. Litt., University of Oxford.

ROBERT SIDNEY ELLIS 1237 Dartmouth Av
Professor of Psychology, 1931.
B.A., University of Arkansas; Ph.D., Clark University.

KENNETH G. FISKE 585 W. Twelfth S
Professor of Music, 1936.
B.Mus., M.Mus., American Conservatory of Music. Pupil of Leon Sametini, Jacqu Gordon, Otokar Sevcik.

CHARLES A. FOWLER, JR. 256 E. Second St.
Professor of Physics on the Seeley W. Mudd Foundation, 1947.
B.A., M.S., University of Utah; Ph.D., University of California.

ROBERT F. GALER 790 Wellesley Dr.
Acting Professor of Military Science and Tactics, 1953.
B.A., University of Washington; Graduate Study, Montana State University. Lt. Col., Infantry, United States Army.

JOHN HOWES GLEASON[3] 512 Baughman Ave.
Professor of History on the Warren Finney Day Memorial Foundation, 1939.
B.A., Ph.D., Harvard University; B.Litt., University of Oxford.

HUGH J. HAMILTON 1269-C Harvard Ave.
Professor of Mathematics, 1936.
B.A., University of California at Los Angeles; M.A., Ph.D., Brown University.

HUBERT HERRING 225 E. Eleventh St.
Professor of Latin American Civilization, 1945.
B.A., Oberlin College; M.A., Columbia University; Graduate, Union Theological Seminary.

FRANCIS RAYMOND IREDELL 1060 College Ave.
Professor of Philosophy on the Robert C. Denison Foundation, and Dean of the Faculty, 1925.
B.A., Pomona College; M.A., Ph.D., Harvard University.

CHESTER GEORGE JAEGER 1045 Yale Ave.
Professor of Mathematics on the Joseph N. Fiske Foundation, 1931.
B.A., B.S., M.A., Ph.D., University of Missouri.

WILLIAM THOMAS JONES 4201 Via Padova
Professor of Philosophy, 1938.
B.A., Swarthmore College; B. Litt., University of Oxford; Ph.D., Princeton University.

JOHN HASKELL KEMBLE 452 West Sixth St.
Professor of History, 1936.
B.A., Stanford University; M.A., Ph.D., University of California.

FREDERICK LUDWIG MULHAUSER, JR. 424 W. Eleventh St.
Professor of English, 1941.
B.A., College of Wooster; M.A., Ph.D., Yale University.

WILLIS E. PEQUEGNAT 433 Harrison Ave.
Professor of Zoology on the Williard George Halstead Foundation, 1940.
B.A., University of California; Ph.D., University of California at Los Angeles.

ERNEST ALBERT STRATHMANN 160 W. Eleventh St.
Professor of English, 1932.
B.A., M.A., Ph.D., Johns Hopkins University.

ROBERT LOBINGIER STREHLE 1019 Dartmouth Ave.
Professor of Physical Education for Men, 1923.
B.A., Pomona College; M.A., Claremont Graduate School; Graduate study, University of Southern California, University of California, Stanford University.

JOHN ALBERT VIEG 910 Oxford Ave.
Professor of Government, 1945.
B.A., St. Olaf College; M.A., University of Iowa; Ph.D., University of Chicago.

ASSOCIATE PROFESSORS

VIRGINIA PRINCEHOUSE ALLEN — 175 E. Twelfth S
Associate Professor of Dramatics, 1930.
B.A., Pomona College; Graduate study, Department of Drama, Yale University; M.A
Claremont Graduate School.

WILLIAM G. BLANCHARD — 1495 Via Zuri
Associate Professor of Music and College Organist, 1936.
B.Mus., DePauw University; M.Mus., University of Michigan. Further study with Ca
Weinrich and Hugh Porter in organ and with Seth Bingham in composition.

ELIZABETH CAWTHORNE — 758 Baylor S
Associate Professor of Physical Education for Women, 1935.
B.A., M.A., University of California.

DARYL DAYTON — 262 W. Sixth S
Associate Professor of Music, 1938.
B.Mus., Oberlin College; Graduate study in Berlin and New York with Artur Schnabe
Leonard Shure, Dalies Frantz, and Guy Maier.

EDWARD MONTGOMERY FRYER[1] — 231 W. Tenth S
Associate Professor of Physics, 1946.
B.A., Pomona College; M.E., Ph.D., Stanford University.

CORWIN HERMAN HANSCH — 4070 Olive Knoll Pla
Associate Professor of Chemistry, 1946.
B.S., University of Illinois; Ph.D., New York University.

COLVIN HEATH — 750 Indian Hill Blv
Associate Professor of Physical Education for Men, 1922.
B.A., Pomona College; M.A., Stanford University.

BURTON HENKE[2] — 121 Brown Driv
Associate Professor of Physics, 1948.
B.A., Miami University; M.A., Ph.D., California Institute of Technology.

CHARLES SHIVELEY HOLMES — 1010 Berkeley Av
Associate Professor of English, 1941.
B.A., Oberlin College; Ph.D., Princeton University.

GORDON CANFIELD LEE — 326 E. Cucamonga Av
Associate Professor of Education, 1948.
B.A., University of California; M.A., Ph.D., Columbia University.

LUTHER JAMES LEE, JR.[3] — 443 W. Eleventh S
Associate Professor of Government, 1941.
B.A., Pomona College; M.A., Ph.D., University of California.

ROBERT F. LEGGEWIE — 240 Annapolis D
Associate Professor of Romance Languages, 1951.
B.S., Loyola University; M.A., University of Southern California; A.M., Ph.D., Harvar
University.

MILES D. MCCARTHY[3] — 444 Harrison Av
Associate Professor of Zoology, 1946.
B.S., West Chester State Teachers College; Ph.D., University of Pennsylvania.

)ONALD B. McINTYRE — 136 E. Seventh St.
Associate Professor of Geology, 1954.
B.Sc., Ph.D., D.Sc., University of Edinburgh.

ARL JAY MERRITT — 641 Harvard Ave.
Associate Professor of Physical Education, 1925.
B.A., Pomona College; M.A., Claremont Graduate School.

[ENRY CORD MEYER — 470 Harrison Ave.
Associate Professor of History, 1946.
B.A., University of Colorado; M.A., University of Iowa; Ph.D., Yale University.

OUIS B. PERRY — 2929 Claremont Hts. Dr.
Associate Professor of Economics, 1947.
B.A., M.A., Ph.D., University of California at Los Angeles.

DWIN ALLEN PHILLIPS — 146 E. Twelfth St.
Associate Professor of Botany, 1948.
B.A., Colgate University; M.A., Ph.D., University of Michigan.

VILLIAM F. RUSSELL — 202 N. College Ave.
Associate Professor of Music, 1951.
B.A., Columbia University; M.A., Harvard University.

)WIGHT LEONARD RYERSON — 107 E. San Jose
Associate Professor of Zoology, 1946.
B.A., M.S., University of Arizona; Ph.D., University of California at Los Angeles.

.LVIN HEWITT SCAFF — 670 S. College Ave.
Associate Professor of Sociology, 1947.
B.A., University of Texas; B.D., Chicago Theological Seminary; M.A., Ph.D., University of Texas.

ETER HOWARD SELZ
Associate Professor of Art, 1955.
M.A., Ph.D., University of Chicago.

)HN SEWALL SHELTON — 1100 Oxford Ave.
Associate Professor of Geology, 1946.
B.A., Pomona College; Ph.D., Yale University.

. NELSON SMITH — 115 Brown Dr.
Associate Professor of Chemistry, 1945.
B.A., Pomona College; M.A., Ph.D., Stanford University.

'LMER B. TOLSTED — 337 W. Fifth St.
Associate Professor of Mathematics, 1947.
B.S., M.S., University of Chicago; Ph.D., Brown University.

)HN ROBERT VON ROHR — 1111 Harvard Ave.
Associate Professor of Religion, 1945.
B.B.A., University of Minnesota; B.D., Chicago Theological Seminary; Ph.D., Yale University.

MILIE ELIZABETH WAGNER — 783 W. Tenth St.
Associate Professor of German, 1928.
B.A., Smith College; M.A., Pennsylvania State College. Doctorate de l'Université mention Lettres, Toulouse.

EDWARD WEISMILLER 510 W. Tenth S
Associate Professor of English, 1949.
B.A., Cornell College; M.A., Harvard University; D.Phil., University of Oxford; D.Lit
Cornell College.

ASSISTANT PROFESSORS

C. FREEMAN ALLEN 125 E. Oak Park D
Assistant Professor of Chemistry, 1954.
B.S., University of California at Berkeley; Ph.D., University of Wisconsin.

YOST U. AMREIN 346 Harvard Av
Assistant Professor of Zoology, 1951.
B.A., M.A., Ph.D., University of California at Los Angeles.

THOMAS B. BELL 417 E. Cucamonga Av
Assistant Professor of Physical Education for Men, 1947.
B.A., M.A., University of California.

MARGERY SMITH BRIGGS 4549 Live Oak D
Assistant Professor of Music, 1943.
B.Mus., B.Mus.Ed., M.Mus., Chicago Musical College.

HARRY JOSEPH CARROLL, JR.[2] 243 N. Alexander Av
Assistant Professor of Classics, 1948.
B.A., University of Akron; M.A., Ph.D., Harvard University.

FRANK C. CHILD 686 Colorado S
Assistant Professor of Economics, 1952.
B.A., University of Utah; M.A., Ph.D., Stanford University.

LORNE D. COOK 830 Harvard Av
Assistant Professor of Economics, 1954.
B.A., M.A., Ph.D., University of Michigan.

WILLIAM L. FAUST 1100 Harvard Av
Assistant Professor of Psychology, 1953.
B.A., M.A., Ph.D., Stanford University.

RAY FRAZER 1102 North College Av
Assistant Professor of English, 1952.
B.A., Pomona College; M.A., Ph.D., University of California.

JAMES E. GRANT 676 W. Ninth S
Assistant Professor of Art, 1950.
B. E., M.F.A., University of Southern California; Student at Jepson Art Institute.

JOEL GREENSPOON 1002 E. Foothill Blv
Assistant Professor of Psychology, 1951.
B.S., University of Virginia; M.A., University of Pennsylvania; Ph.D., Indiana University

GRETCHEN GRAF JORDAN 638 E. Sixth S
Assistant Professor of English, 1947.
B.A., M.A., Ohio State University; Ph.D., University of California at Los Angeles.

GORDON D. KAUFMAN — 145 E. Sixth St.
Assistant Professor of Religion, 1953.
B.A., Bethel College; M.A., Northwestern University; B.D. and doctoral candidate, Yale University.

ARL GEORGE KOHN[3]
Assistant Professor of Music, 1950.
Studied piano in Vienna; Teacher's Certificate and Artist Diploma, New York College of Music; B.A. and graduate study, Harvard University. Advanced study in conducting with Julius Pruewer, theory and composition with Paul Hindemith, Walter Piston, and Randall Thompson.

INCENT H. LEARNIHAN — 220 W. Tenth St.
Assistant Professor of History, 1949.
B.A., M.A., Ph.D., University of California at Los Angeles.

ICHARD N. LOUCKS — 176 W. Oak Park Dr.
Assistant Professor of Music, 1948.
B.A., Pomona College; M.A. and Doctoral Candidate, Eastman School of Music.

RANCIS X. MAGGIPINTO — 425 Carleton Ave.
Assistant Professor of Romance Languages, 1952.
B.A., University of California at Los Angeles; M.A., Ph.D., Stanford University.

DWARD W. MALAN — 118 Oak Park Dr.
Assistant Professor of Physical Education for Men, 1950.
B.A., Pomona College; M.A., Claremont Graduate School; Graduate Student, University of California at Los Angeles.

MES G. MCCRAY — 1719 Elaine St., Pomona
Assistant Professor of Military Science and Tactics, 1953.
B.S., United States Military Academy; Graduate, Infantry School, Fort Benning, Georgia; Captain, Infantry, United States Army.

EE CAMERON MCDONALD — 121 W. Sixth St.
Assistant Professor of Government, 1952.
B.A., Pomona College; M.A., University of California at Los Angeles; Ph.D., Harvard University.

HN MOOI — 120 W. Seventh St.
Assistant Professor of Chemistry, 1953.
B.A., Hope College; Ph.D., Northwestern University.

ILLIAM C. OLSON — 338 Harvard Ave.
Assistant Professor of Government, 1953.
B.A., University of Denver; M.A., Ph.D., Yale University.

AUL MCRAE ROUTLY — 408 W. Third St.
Assistant Professor of Astronomy, 1954.
B.Sc., M.Sc., McGill University; M.A., Ph.D., Princeton University.

Y M. SAVAGE — 457 Cambridge Ave.
Assistant Professor of Zoology, 1954.
B.A., M.A., Ph.D., Stanford University.

AXINE J. SHURTZ[3] — 413 St. Augustine
Assistant Professor of Physical Education for Women, 1947.
B.S., Miami University; M.S., Wellesley College.

HERBERT B. SMITH 414 Elder Dr
Assistant Professor of History, 1952.
B.A., M.A., University of Iowa; Ph.D., University of California.

FREDERICK SONTAG 642 N. College Ave
Assistant Professor of Philosophy, 1952.
B.A., Stanford University; M.A., Ph.D., Yale University.

ALVA W. SWARTZ 767 W. Third St
Assistant Professor of Military Science and Tactics, 1955.
University of Illinois; Graduate, Transportation School; Major, Transportation Corps United States Army.

INSTRUCTORS

ALEXANDER BAIRD 160 E. Laurel St., Arcadi
Instructor in Geology, 1955.
B.A., Pomona College; M.A. candidate, Claremont Graduate School.

JESSE A. CONE, JR. Eli P. Clark Hal
Instructor in Physical Education for Men, 1953.
B.A., M.A., Stanford University.

ANN LINDSTAEDT COPPLE 205 W. Cucamonga Ave
Instructor in French, 1953.
B.A., Wellesley College; M.A., University of Wisconsin; doctoral candidate, North western University.

CORWIN DAVID CORNELL 695 Colorado St
Instructor in Speech, 1954.
B.A., M.A., and doctoral candidate, State University of Iowa.

DANIEL R. ELLER 135 E. Sixth St
Instructor in Music, 1954.
B.Mus., Candidate for M.Mus., University of Illinois.

JACK C. MILLER 732 Baylor St
Instructor in Physics, 1952.
B.A., Pomona College; M.A., University of California; doctoral candidate, Universit of Oxford.

LYNDON R. MUSOLF 1030 N. College Ave
Instructor in Government, 1955.
B.A., M.A., University of South Dakota; doctoral candidate, University of Californi at Los Angeles.

DONALD ROBERTSON 134 E. Seventh St
Instructor in Art, 1954.
B.A., University of New Mexico; M.A., and doctoral candidate, Yale University.

GERHARD N. ROSTVOLD 448 Springfield St
Instructor in Economics, 1952.
B.A., M.A., and doctoral candidate, Stanford University.

HELEN M. SMITH — 120 W. Third St.
Instructor in Violin, 1949.
B.A., Pomona College.

SALLY ANNE TAYLOR — 567 W. Eighth St.
Instructor in Physical Education for Women, 1950.
B.A., Pomona College; M.A., Stanford University; Graduate work, University of Southern California.

LOIS A. WINGERT
Instructor in Physical Education for Women, 1955.
B.A., Pomona College; Graduate Study, Indiana University.

HOWARD THOMAS YOUNG — 1269-A Harvard Ave.
Instructor in Romance Languages, 1954.
B.S., M.A., and doctoral candidate, Columbia University.

PART-TIME FACULTY

CALMAN BLOCH — 3914 Franklin Ave., Los Angeles
Clarinet
First Clarinetist, Los Angeles Philharmonic Orchestra.

MARGARET G. DAVIES — 395 Bonnie Ave., Pasadena
History
B.A., M.A., Ph.D., Radcliffe College.

PAUL D'ESTOURNELLES — 415 Olcott Place, Pasadena
French
Licence és-lettres, University of Paris.

ERNST H. EIN — 374 S. Mountain Ave.
Russian
Graduate, Law School of Tartu University; D.J., Institute of Roman Law, Rome.

THERESA ZEZZOS FULTON — 46 N. Los Robles Ave., Pasadena
Art History
B.A., Wellesley College; Ph.D., Harvard University.

LEWIS L. GRIMM — 220 W. Bonnie Brae Court, Ontario
Engineering Drawing
B.S., California Institute of Technology.

FREDERICK H. HAMMERSLEY — 667 S. Rampart, Los Angeles
Painting
Student, Chouinard Art Institute; Ecole des Beaux Arts, Paris; Jepson Art Institute.

ALBERT H. HARBAUGH — 3534 LeRoy St., San Bernardino
Oboe and Bassoon
B.A., Colorado State College; M.Mus., University of Southern California.

MARGOT JEAN — 272 S. Almont, Beverly Hills
Violoncello
Pupil of Jacob at the Royal Conservatoire in Brussels.

CHARLES B. LAWLER — 3560 Padua Ave.
Sculpture
B.A., University of California, Studied under Charles Malfray in Paris; California School of Fine Arts, San Francisco; and Alexander Archipenko.

JEAN PILON — 3849 W. 27th St., Los Angeles
Voice
B.A., M.A., Chicago Musical College.

DOROTHY REMSEN — 137 N. Serrano, Los Angeles
Harp
Harpist, Los Angeles Philharmonic Orchestra.

ROGER STEVENS — 1677 E. Mountain St., Pasadena
Flute
Flutist, Los Angeles Philharmonic Orchestra.

GEORGE H. TYLER — 140 E. Twelfth St.
Brass Instruments
Formerly first trumpet with Los Angeles Philharmonic Orchestra.

HSI-TSENG WEN — 852 W. Forty-second St., Los Angeles
Chinese Language
Ph.B., National Peking University; M.A., Yenching University; doctoral candidate, University of Southern California.

MEMBERS OF THE CLAREMONT GRADUATE SCHOOL FACULTY OFFERING COURSES IN POMONA COLLEGE

DOUGLAS G. ADAIR
Professor of American History, Claremont Graduate School
B.A., University of the South; M.A., Harvard University; Ph.D., Yale University.

GEORGE A. AUSTIN — 1019 Columbia Ave.
Assistant Professor of Psychology
B.S., California Institute of Technology; M.A., Ph.D., University of Michigan.

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[1]Absent on leave, first semester, 1955-56.
[2]Absent on leave, second semester, 1955-56.
[3]Absent on leave 1955-56.

FACULTY COMMITTEES 1955-1956

First person named is the Committee Chairman

Administration—President, Dean of the Faculty, Bracher, Beatty, Fowler, Mulhauser, Scaff, Nelson Smith.

Admission—Sanders, Armstrong, Frazer, Kaufman, Herbert Smith, Wheaton.

Athletic Council—Strehle, Jaeger, Phillips, three student representatives, and two alumni representatives.

Pomona College Representatives on the Southern California Intercollegiate Athletic Conference—Jaeger, Strehle.

Classification—Iredell, Armstrong, Lee, Fiske, Mulhauser.

College Life Council—Beatty, Olson, Phillips, McIntyre, Russell, Sanders, Wing, and nine student members.

Courses of Study—Iredell, Bond, Fowler, Vieg, Strathmann, Hansch, Benson, Kemble, Leggewie, Maple, Russell, Selz, Sanders.

English—Jordan, Hamilton, Learnihan, Maggipinto, Freeman Allen.

International Relations—Olson, Meyer, Scaff, Child, Young.

Library—Benson, Bond, Davies, Dayton, Hansch, Weismiller.

Personnel—Beatty, Amrein, Armstrong, Bell, Faust, Nider, Sanders, Taylor, Wing, and four student representatives selected by the Executive Council of the Associated Students.

Pre-Law—Perry, McDonald, Rostvold, Frazer, Kemble.

Pre-Medical—Ryerson, Beatty, Coltrin, Hansch, Pequegnat, Holmes, Tolsted.

Public Events—Iredell, Russell, Vieg, Bond, Kemble, Wheaton.

Religious Activities—Kaufman, McDonald, Miller, Mooi, Rankin, Herbert Smith, and two representatives of the Christian Association.

Scholarships and Student Aid—Wheaton, Beatty, Bracher, Loucks, Malan, Meyer, Nelson Smith, Sanders, Sontag.

Student Affairs—Sanders, Beatty, Cone, Jaeger, Jordan, Perry, Shelton, Wing, and four members of the Executive Council of the Associated Students.

Vocational Counselling and Placement—Beatty, Cornell, Grant, Lee, Leggewie, Loucks, Rostvold, Routly.

The College

Pomona College is an independent, privately endowed, coeducational institution of arts and sciences. Originally established in 1887 to serve its immediate region, the college now enjoys support from every section of the United States. Enrollment is restricted to approximately one thousand students, divided equally among the four classes.

The purpose of the college is to awaken the minds and develop the personalities of its students so that they may attain full growth both as individuals and as responsible members of a democratic society.

Pomona College was incorporated on October 14, 1887, by a group of early settlers who wanted to see in Southern California a "Christian College of the New England type." Under the leadership of the Reverend Charles B. Sumner, a devoted and self-sacrificing group were appointed members of the first Board of Trustees by the General Association of Congregational Churches of Southern California. The original trustees were: Henry K. W. Bent, Nathan W. Blanchard, Anson Brunson, Elwood Cooper, James T. Ford, James H. Harwood, Dexter D. Hill, Theodore C. Hunt, George W. Marston, John K. McLean, Henry A. Palmer, Seth Richards, Charles B. Sheldon, Charles B. Sumner, and Andrew J. Wells. These Christian pioneers, deeply committed to religious, political, and economic freedom, founded a college dedicated to the pursuit of truth and knowledge—principles to which it has ever remained steadfast.

Instruction was begun in September, 1888, in a small rented house in the city of Pomona. The following January an unfinished hotel (now Sumner Hall) in nearby Claremont, together with considerable land adjacent, was given to the College and the work was transferred to that place. Although this location was originally regarded as temporary, Claremont later became the permanent home of the College. By that time, however, the name of "Pomona College" had become so definitely fixed to the institution that it was retained, notwithstanding the location.

The College met a need for higher education in Southern California, and after the initial years its growth was constant. The first class was graduated in 1894, at which time the total number of

college students was forty-seven. The preparatory department, essential in the beginning, was discontinued in 1910.

With the freedom characteristic of Congregational organization, Pomona was soon entrusted with its own government and in 1903 was freed from any organic association with the church of its origin. Today the Board of Trustees is a self-perpetuating body, free from ecclesiastical control, but pledged under its charter to maintain the institution as truly Christian, though nonsectarian.

Pomona is a liberal arts college, which affords a full academic program in the social sciences, the natural sciences, and the humanities. The curriculum is planned to give a comprehensive understanding of man and the universe in which he lives, rather than technical training in highly specialized fields. The College believes that the best preparation for life is liberal education, and it aspires thus to train men and women for leadership in the professions, in business, and in civic affairs.

Pomona believes that a college should be a genuine community in which faculty and students meet easily and frequently and students live, eat, and work together on the campus. To this end, the College maintains a large faculty in relation to its student body (during 1955-56 there will be approximately one faculty member for every ten students) and provides one of the finest groups of dormitories and dining halls in the country. The residential organization of undergraduate life at Pomona is one of the most important features of the total educational program.

The College owes the development of the campus and the growth of its financial resources to the generosity of patrons, friends, and alumni. As an independent institution, without assistance from any governmental or church body, Pomona must rely upon gifts for the expansion of its program and for the increase of its endowment, upon which depends the financial strength of the college. From the contributions of her benefactors, the total assets of Pomona are now over $14,500,000, of which $7,000,000 is in endowment.

THE ASSOCIATED COLLEGES

Pomona College is the original institution in a group of four Associated Colleges, of which the other members are Claremont College, Scripps College, and the Claremont Men's College. Although each college is autonomous and independently controlled

by its own Board of Trustees, the four institutions cooperate in their academic programs and in use of certain common facilities.

The group, which represents a combination of English and American practices, arose from the desire of Pomona College to maintain for itself the advantages of a small college and at the same time to provide at Claremont an educational opportunity for the increasing numbers of young men and women who at the end of World War I were seeking admission to the College.

Under the leadership of the Pomona trustees, the institution now incorporated as Claremont College was established on October 14, 1925, for the inauguration of the new plan. It assumed responsibility of acting as a central coordinating agency, the direction of graduate instruction for the Associated Colleges, and the foundation of new institutions as they might be required. Claremont College conducts its instructional program under the name of "The Claremont Graduate School," and the presidents of the undergraduate colleges, in addition to their duties in their respective colleges, serve in rotation for two year terms as head of Claremont College with the title of Provost. In addition to its own appointees the faculty of the Claremont Graduate School includes most members of the three undergraduate faculties.

An early objective of the group plan was the establishment of a college for women. In September, 1927, Scripps College, named in honor of Miss Ellen Browning Scripps, whose generosity and vision made it possible, was opened as a residence college for 225 women. From the beginning the main feature of its curriculum has been a unified sequence of courses in the humanities.

Claremont Men's College, the third undergraduate institution, was established in 1946 as a liberal arts college training particularly for business and public administration. The College has developed residence and academic facilities for approximately 300 students.

The four colleges cooperate in their academic programs and thus afford for their students many of the advantages of a university center. The undergraduate colleges open their classes without tuition charges to students in the other undergraduate institutions. Selected courses in the Claremont Graduate School are open to seniors at Pomona, Scripps, and Claremont Men's College.

The colleges maintain a common business office and a joint health service which includes the full time services of two physicians and the operation of a thoroughly up-to-date infirmary. A joint

library service purchases and catalogues books for the three libraries. Bridges Auditorium, which seats 2600, is administered by Claremont College for the group.

CLAREMONT

One of Pomona's greatest assets is the town of Claremont, a pleasant residential community of 8,000 which has grown up around the college. Although Pomona College students enjoy in Claremont the relative quiet of a small academic community, they are in no sense isolated from the life of Southern California, for the College is only four miles from Pomona, a city of over 45,000 inhabitants, and thirty-five miles from Los Angeles, with which it has hourly bus connections. Claremont is on the main line of the Santa Fe Railway, and the transcontinental lines of the Union Pacific and the Southern Pacific pass through the city of Pomona.

The Campus

Pomona College occupies about one hundred and twenty acres, of which sixty are included in Blanchard Park, the gift of Nathan W. Blanchard, about ten in Alumni Athletic Field, and fifty in the campus proper. The College centers on Marston Quadrangle, built and endowed by George W. Marston, 1850-1946, distinguished citizen of San Diego, an original trustee of Pomona and for many years president of the board.

The twenty-seven buildings on the campus are heated from a central plant which serves the four colleges.

ADMINISTRATIVE AND GENERAL ACADEMIC BUILDINGS

Mary L. Sumner Hall, a hotel which in 1889 became the original building of the college, was removed from its first site in 1922, remodeled for administrative and faculty uses, and named in memory of the wife of Rev. Charles B. Sumner, LL.D., one of the Founders of Pomona College.

Holmes Hall, the first academic building erected by the college in 1893, is a memorial to Cyrus W. Holmes, Jr., of Monson, Massachusetts. Reconstructed in 1916, it is now devoted to recitation rooms, departmental offices, and an auditorium seating 750.

The Andrew Carnegie Building, a gift of Mr. Carnegie, which served as the College Library from its construction in 1908 to June, 1952, was remodeled in 1952, for use as a classroom and office building for the Social Sciences.

The Associated Colleges maintain a joint Business Office in Harper Hall, constructed in 1931.

ART AND MUSIC BUILDINGS

Rembrandt Hall, built in 1914, is devoted to the Department of Art. The upper floor contains studio and work rooms; the lower floor two galleries, one of which was added in 1937.

The Mabel Shaw Bridges Hall of Music, given by Mr. and Mrs. Appleton S. Bridges of San Diego in 1915, in memory of their daughter who died while a student at Pomona College, offers excellent facilities for the study of music. It contains, in addition

to private studios, an unusually beautiful auditorium seating 800.

The Mabel Shaw Bridges Auditorium, also the gift of Mr. and Mrs. Appleton S. Bridges in memory of their daughter, was constructed in 1931. It has a seating capacity of 2600, and is administered by Claremont College on behalf of the Associated Colleges.

The Open-Air Theatre, built in 1910, is located in Blanchard Park.

SCIENCE BUILDINGS

Pearsons Hall of Science, the gift of Dr. D. K. Pearsons in 1898, contains the laboratories and lecture rooms of the Departments of Physics and Mathematics.

The Frank P. Brackett Observatory, the gift of Mr. Llewellyn Bixby, '01, has served the Department of Astronomy since 1908.

The Seaver Laboratory, a separate building in the Observatory area, was completed in 1950. The dome houses the Clara Whitney Shatto Reflector Telescope, and the main floor contains classrooms and a library.

Harwood Hall, given in 1915 by Mr. A. P. Harwood, contains lecture rooms and laboratories for the use of the Department of Psychology.

The Mason Hall of Chemistry, the gift of Mr. W. S. Mason, in 1922, provides ample facilities for the study of Chemistry, and also houses the Department of Geology.

The Crookshank Hall of Zoology, given in 1922 by Dr. D. C. Crookshank, is occupied by the Departments of Botany and Zoology.

HONNOLD LIBRARY

The new Honnold Library, which was given by Mr. and Mrs. William L. Honnold to Claremont College for the Associated Colleges, houses the Pomona College Library along with the libraries of Claremont Men's College, the Claremont Graduate School, and a part of the Scripps College Library.

PHYSICAL EDUCATION AND ATHLETIC FACILITIES

The War Memorial Gymnasium, given to the college by students, alumni, trustees, and friends, commemorates the men and women of Pomona College who gave their lives in World War I and World War II. Completed in December, 1950, the building includes an

excellent basketball court with seats for 1200 spectators, a classroon a memorial library, staff offices, and commodious shower and locke rooms.

The Memorial Training Quarters, constructed in 1922 as a m morial to the men of Pomona College who lost their lives in Worl War I, has been incorporated as the east wing of the new Memori Gymnasium. It represents the gift of the parents of one of thes men, Sheldon Gerry, '17, supplemented by the gifts of alumn students, and friends.

A swimming pool, of the standard size for water polo, and full equipped with modern appliances, is open to both men and wome for instruction and recreation throughout the year.

Alumni Field, consisting of about ten acres, has been develope by the alumni into athletic grounds unsurpassed in the Southwe in beauty of setting. First-class tennis courts, an excellent trac baseball and football fields, also hockey and basketball courts ar within the limits of the campus. A ticket booth, wall and gate t Alumni Field were built in the autumn of 1950, as a gift of the cla of 1916.

The William Renwick Gymnasium, named in memory of a early donor to the college, was first erected as a military barracks i World War I. It provides general facilities for the women's depar ment of physical education.

RESIDENCE AND DINING HALLS FOR MEN

Helen R. Walker Hall, the gift of Helen R. Walker of Glendal California, was opened for use in 1953. Its rooms, grouped aroun three courtyards, accommodate 108 men. Walker Hall also include a lounge and reception room for the entire men's campus.

The Eli P. Clark residence unit for men, erected in 1929, include three dormitories with accommodations for 278 students.

The Albert K. Smiley Hall, the first dormitory for men, built i 1908, accommodates sixty-nine students.

Accommodations for married men may be had in apartment originally given to the college by the United States government fo use of veterans.

Frary Dining Hall for Men, given by Mr. George W. Marsto in 1929 in memory of Rev. Lucien H. Frary, a Trustee from 189

) 1903, seats 375 in the main hall and includes three smaller dining ooms for special uses.

RESIDENCE AND DINING HALLS FOR WOMEN

Harwood Court, constructed in 1921 and named in memory of Mrs. Charles E. Harwood, also includes Strong Hall. It accommodates 80 women.

Florence Carrier Blaisdell Hall, erected in 1936 and named in onor of Mrs. James A. Blaisdell, wife of the fourth President of ne College, houses 120 women.

Della Mulock Mudd Hall, which honors the wife of the late eeley W. Mudd, a Trustee of Pomona, was completed in the ring of 1947. The building has accommodations for 100 women, ost of them in single rooms.

The College also maintains three smaller residences for women, aldwin House, the Maison Française for students majoring in rench, and the Casa Hispánica for students majoring in Spanish.

Beautiful and commodious dining facilities are available for all omen students. Residents of Harwood Court are served by the urelia Squier Harwood Memorial Dining Hall built in 1931.

The Mary McLean Olney Dining Hall, constructed in 1936, has ccommodations for 120 students.

Jessie E. Gibson Dining Hall, built in 1949 in honor of the former ean of Women, serves the students living in Blaisdell Hall and Iudd Hall.

EDMUNDS UNION

he Charles K. Edmunds and Katharine P. Edmunds Student nion, which honors the late fifth President of the College and his ife, provides a social center for all students and an attractive llroom in which all formal dances are held. This building, made ssible by the gifts of many parents supplemented by funds from e Associated Students and the bequest of the late Florence Riley, as built in 1937 and houses student offices, including publications, e manager's office, and the Cooperative Store.

The east wing to Edmunds Union, which houses the fountain id sandwich facilities, and also includes a full basement for recrea- onal use, was completed in January, 1951.

HEALTH FACILITIES

Memorial Infirmary, given in 1931 in memory of Colonel Seele W. Mudd, is administered by Claremont College and is operate jointly for the benefit of students in all the Associated Colleges Claremont. Twenty beds are available. The Infirmary is situated c Amherst Avenue, north of Foothill Boulevard.

The Baxter Medical Building, the gift of Doctor and Mrs. Georg E. Baxter to Claremont College, serves the students of the Associate Colleges. It provides an office where the College Physicians an a nurse are available for consultation and treatment for minc ailments.

OTHER FACILITIES

The President's House at 345 North College Avenue was the gi of Dr. D. K. Pearsons. It was constructed in 1897, and has bee the home of all Presidents of the College since that time.

A replica of the original house in Pomona in which the Colleg first opened in September, 1888, was erected on the campus in 19: through the generosity of an anonymous donor.

The College operates its own independent deep well water suppl the gift of Edward P. and Mary G. Bosbyshell.

THE CLAREMONT INN

The Claremont Inn, beautifully located on College Avenue opposit the campus since 1906, is the guest house of the colleges and com munity, and is owned by Pomona College. Parents and friends ar invited to use the facilities of the Inn for longer or shorter perioc during visits to Claremont. Public and private dining rooms an accommodations for sixty guests under both the American an European plans are provided.

Admission

STUDENTS ARE ADMITTED to Pomona College upon evidence which satisfies the Committee on Admissions that: (1) the applicant possesses the necessary preparation and ability to arry successfully the academic program offered here, and will ctually use them to that end; (2) the College, with its program nd traditions, and the applicant, with his capacities, interests and eeds, are mutually well suited to each other.

The Committee tends to judge the fitness of an applicant in terms f reasonably definite academic prerequisites but it makes every ffort to form judgments on the basis of the total picture rather han in terms of narrowly technical requirements.

Any person interested in preparing for Pomona, or any school fficial who is responsible for directing the preparatory programs f students is invited to call on the Dean of Admissions at any me regarding the acceptability of candidates or for advice on pecific programs.

For further information, write to Office of Admissions, Sumner Hall, Pomona College, Claremont, California.

ADMISSION TO FRESHMAN STANDING

The College does not require any particular pattern of secondary chool courses, but assumes candidates will have taken a college reparatory course. Under ordinary circumstances they are advised o complete at least three years of satisfactory study in English. Two ears of mathematics are advised for all candidates. Those who lan to study mathematics or the physical sciences in college should ave at least three years or more, including trigonometry. (See page 6.) Foreign language credit is not required for admission but for oncentration in many fields a reading knowledge of at least one oreign language is essential. It is much to the advantage of a student o begin the acquisition of this knowledge before entering college nd this is strongly advised. Two or three years in social studies and wo or three in sciences are also advised. The major attention is iven to the quality of preparation rather than to the exact arrange- ient of subjects.

It is normally assumed that candidates will have received a high chool diploma. Students from foreign countries or those who are

following unusual patterns of preparation may submit other e
dences of their readiness to undertake college work.

All freshman candidates are required to take the Scholastic Ap
tude Test administered by the College Entrance Examination Boar
(See page 32 for further information.) This requirement does n
lessen the importance of the school record, the personal ratings an
personal interviews. The test results will be used in the academ
advising of freshmen and replace some of the aptitude tests pr
viously given during the registration period.

It is recommended that applications be filed at the beginnin
of the senior year in high school. The Scholastic Aptitude Te
should be taken either in January or in March and the candida
is responsible for registering for this with the College Entran
Board. The regular selection of new students will be made fro
applications received on or before March 15, provided candidat
have taken the Scholastic Aptitude Test in March or earlier.

Applications will be accepted between the dates of March 15 an
August 15 from candidates who have already taken the Scholas
Aptitude Test or who plan to take it on May 19 or August 8 b
there is no assurance that there will still be vacancies at that tim
These applications will be acted upon as promptly as possible.

Since there are more applicants than can be accepted, th
Committee attempts to select the strongest candidates with litt
regard to the chronological order in which applications are receive
In all cases admission is granted subject to evidence of satisfacto
physical condition on the part of the candidate.

ADMISSION TO ADVANCED STANDING

In considering applications for advanced standing the Colle
follows the general policy used for freshman candidates. It requir
an official transcript, or transcripts, of all college work for which th
applicant has been previously registered. These transcripts mu
show the detailed record in all secondary as well as all collegia
institutions attended. The College further requires honorable d
missal from the previously attended institution with an avera
grade of C or better in liberal arts type of courses taken
accredited collegiate institutions, together with recommendatio
from the proper college officials. In addition all candidates a
required to submit scores on the Scholastic Aptitude Test giv
by the College Entrance Examination Board. It is not necessary

repeat the test if it was taken during the Senior year in secondary school.

Credit allowed for work taken in other institutions will be determined by the Classification Committee after the candidate has been accepted.

ADMISSION TO SPECIAL CLASSIFICATION

Mature students, particularly those equipped for advanced studies, may be admitted as special students to courses for which, by ability and preparation, they may be fitted. Special students are not candidates for a degree, though students admitted to this classification may be accepted later as candidates for a degree.

COMBINED PLANS WITH MASSACHUSETTS INSTITUTE OF TECHNOLOGY AND CALIFORNIA INSTITUTE OF TECHNOLOGY

Along with several other liberal arts colleges, Pomona has an arrangement with the Massachusetts Institute of Technology and with the California Institute of Technology whereby qualified students may receive the Bachelor of Arts degree from Pomona and a Bachelor of Science degree from M.I.T. or C.I.T. after a combined five-year program, of which the first three years are taken at Pomona. Without the combined plan at least six years would usually be required to complete the work for both degrees. Students under the combined plan will be accepted at the Massachusetts Institute of Technology or the California Institute of Technology without examination if recommended by Pomona. For detailed program see page 67.

APPLICATION PROCEDURE

Application for admission to Pomona College must be made on the form furnished by the college and all credentials must be filed with the Committee on Admissions. The forms and credentials required are:

1. *Application Form I.* Including $5.00 fee, which is not refundable. Make checks or money orders payable to Pomona College.
2. *Two Personal Rating Scales, Form II.* Confidential reports by the principal or other school official, and by a classroom teacher, sent by them to the Committee on Admissions.
3. *A Statement of Qualifications.* The Committee seeks the most complete possible picture of each candidate and to this end

requires a personal, autobiographical statement to supplement the other information. Some or all of the following points may be discussed although the candidate need not consider this an outline to be followed: (1) your preparation or background for college other than that which will be evident from your school record; (2) your major aptitudes and interests either of an academic or non-academic nature; (3) your purposes in going to college; (4) your particular reasons for choosing Pomona College. It is permissible to discuss the paper with others but the writing, both as to ideas and the form in which they are expressed, must be the candidate's. The letter may be typed. The length should not exceed 1,000 words.

4. *Official Transcript* of high school record to date. At the time of selection of candidates, work in progress will be considered in fulfillment of requirements, and admission will be granted subject to the filing of a final transcript showing the satisfactory completion of all secondary school work. The transcript form ordinarily used by the school is satisfactory. It should include an interpretation of the grading system. It should not be sent until the first half of the senior year has been completed.

   (In addition to the above, the Scholastic Aptitude test of the College Entrance Examination Board must be taken.)

5. *Medical Certificate,* signed by a licensed M.D., on a form furnished by the college after admission has been granted provisionally. The college reserves the right to reject students for health reasons.

6. *Room Deposit* of $50 due within thirty days of date of acceptance. No refund of the room deposit will be made if a student withdraws before entrance. (See page 36 for regulations concerning the refund of this deposit.)

   Failure to make this payment results in the cancelling of admission. Candidates on the alternate list for whom places are not provided will have the entire depost refunded.

SCHOLASTIC APTITUDE TEST

All candidates for admission to Pomona College are required to take the Scholastic Aptitude Test administered by the College Entrance Examination Board and are held responsible for making

Holmes Hall and College Gate

Rembrandt Hall — Home of the Art Department

College Avenue Runs Through the Campus

Pomona College Symphony Orchestra in Rehearsal

application to the Board. Students who plan to enter in September are advised to take the test in December, January or March. Students who plan to enter in February should take it in May, August or December. Either of the three dates is equally satisfactory.

The College Entrance Examination Board will hold five complete series of examinations in 1955-56. Application to take an examination must be filed three weeks in advance of the examination date. The schedule for the examinations with the dates of registration is as follows:

	Regular	*Late*
Examination Date	*Registration Closes*	*Registration Closes*
December 3, 1955	November 12, 1955	November 26, 1955
January 14, 1956	December 17, 1955	January 7, 1956
March 17, 1956	February 25, 1956	March 10, 1956
May 19, 1956	April 28, 1956	May 12, 1956
August 8, 1956	July 18, 1956	August 1, 1956

For admission to Pomona College applicants are required to take the Scholastic Aptitude Test only. It is not necessary to take the Achievement Tests.

Copies of the Bulletin of Information may be obtained without charge from the College Entrance Examination Board. The Bulletin contains rules regarding applications, fees and reports; rules for the conduct of the tests; advice to candidates; descriptions of the tests; sample questions; and lists of examination centers.

Candidates must secure application forms from the College Entrance Examination Board and file completed forms, accompanied by the examination fee of $6.00, at one of the offices described below. If possible, applications should be filed several weeks in advance of the closing date for regular registration for an examination.

Students who wish to take the examinations in any one of the following western states, territories, and Pacific areas: Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming, Alaska, Hawaii, Mexico, Alberta, British Columbia, Australia, and all Pacific islands including Formosa and Japan, should address their inquiries and send their applications to College Entrance Examination Board, P. O. Box 9896, Los Feliz Station, Los Angeles 27, California.

All others should write to College Entrance Examination Board, P. O. Box 592, Princeton, New Jersey.

Expenses

THE EDUCATIONAL and general expense of operating the Colleg is defrayed by payments from students, income from endov ment funds, and gifts from alumni, friends, and corporation The budget for 1955-56 provides for an expenditure of $1,361 p student. Of this amount, approximately $840 will be paid by th student in tuition and fees, and $521 must be provided from endov ment income and gifts.

The College reserves the right to change any of the following fe at any time should conditions make it necessary.

General Fees

TUITION, including health service, season tickets for Artist Course and Athletic Events	per semester	$400.0
ASSOCIATED STUDENT DUES	per semester	10.0
GRADUATION FEE		10.0

Residence Fees

ROOM AND BOARD	per semester	$375.0
(For men living in Smiley Hall the charge is $335.00 per semester. In Clark Hall a few rooms with fireplaces are available for men, for which the charge is $398.00 per semester. Smiley Hall is not open to freshmen.)		
ROOM DEPOSIT, applicable on payment of bills for final semester of residence. (See pages 32, 36.)		50.0
RESIDENTIAL BREAKAGE DEPOSIT, held until a student withdraws from college. (See page 36.)		10.0

Departmental Fees

For exact fees in science and music see Courses of Instruction.

LABORATORY FEES	$ 2.00 to 10.00
LABORATORY BREAKAGE DEPOSITS	4.00 to 10.00
FEES FOR APPLIED MUSIC	25.00 to 60.00
PRACTICE FEES, APPLIED MUSIC	2.50 to 15.00

Fees for Special Privileges

LATE REGISTRATION (See page 78.)	$2.00 to 10.00
CHANGE OF PROGRAM (See page 78.)	3.00
SPECIAL EXAMINATIONS	2.00
CAMPUS FEE FOR AUTOMOBILES (See page 61.)	2.00 to 4.00

Fees for Part-time Students

SPECIAL TUITION FOR STUDENTS CARRYING LESS THAN TEN UNITS OF WORK	per unit $40.00
AUDITOR'S FEE	per course $10.00

RESIDENCE FOR MEN

The College is equipped with residence and dining hall facilities to accommodate most men students. It is expected, and the College may require, that men not actually living at home will room and dine in college halls. All freshmen are required to room on campus unless, for special reasons, they are authorized at the time of admission to room at home or near the campus. All the residence halls have both single and double rooms. Students living at home or working for board or room may make special arrangements with the Dean of Men.

Residential campus privileges are provided only on the basis of an inclusive charge varying according to location of room and including board. The standard charge in Clark and Walker Halls is $375.00 per semester, but a few rooms with fireplaces are available at $398.00. The price for rooms in Smiley Hall is $335.00 per semester. Smiley Hall is open only to upperclassmen. These charges include necessary furniture, rugs, bed linen and towels, the laundering of the same and the care of rooms. Linens will be changed and beds made in all halls once a week. On the remaining days men will make their own beds. The only articles to be furnished by the students are blankets, spreads for single beds, and study lamps.

Off-campus housing arrangements for unmarried students must be approved in advance by the college. The Office of Dean of Men maintains a list of residences, with description of accommodations available, rates, and similar information.

For married students there are a few Veterans Unit apartments available on a modest rental basis, furnished or unfurnished. For further information the married student should correspond with the Admissions Office after or at the time of formal admission. Assignments are made in the Office of the Dean of Men.

RESIDENCE FOR WOMEN

Women students are expected to room in residence halls and board at college dining rooms. Freshmen are normally assigned to Harwood Court. Students living at home or working for room or

board may make special arrangements with the Dean of Women.

Harwood Court, Blaisdell Hall, and the three College Houses have both single and double rooms, as well as suites. Except for a few double rooms, single accommodations are provided in Mudd Hall. Each room is adequately furnished; the only articles to be provided by the student are linen, blankets, and spread for a single bed. Residential campus privileges are provided on the basis of an inclusive charge of $375.00 per semester.

RESIDENCE REGULATIONS

The residence privilege does not include the use of rooms during vacation periods. The residence halls are open for new students the Friday before the opening of the college year and for returning students the day of registration. The residence and boarding privileges end 24 hours after the last examination at the end of each semester for all students except seniors and those asked by the college to remain through Commencement. The residence and dining halls are closed the day after Commencement.

Each student is required to make a deposit of $50 for a room in the dormitory. This deposit is held by the college until the student's final semester of the Senior year in residence, when it is applied on his college bills for that semester. The deposit is refunded at the time of withdrawal to students who withdraw before graduation, provided they have been in residence for one semester or more and give notice of withdrawal not less than sixty days before the opening of the term for which the student is withdrawing.

A residential breakage fee of $10 is required from each student, from which deductions are made for individual and communal damage to college property, any balance being credited to the student's account on graduation or withdrawal.

The College reserves the right to dismiss from a residence hall without rebate of room rent and to withdraw dining hall privileges in the case of any student who becomes an undesirable occupant.

The College may dispose of any articles left by students for more than six months.

BILLS

All college bills are due each semester in advance and must be paid by the student at the time of registration. Students wishing to arrange for payment by installments should confer with the Bursar before entering, preferably in the summer preceding registration

A service charge for deferment will be made as follows:

First semester

Balance payable on or before November 1	$1.50
Balance payable one-half November 1 and one-half December 1	2.25
Balance payable one-third November 1, one-third December 1, and one-third January 1	3.00

Second semester

Balance payable on or before March 1	1.50
Balance payable one-half March 1, one-half April 1	2.25
Balance payable one-third March 1, one-third April 1, and one-third May 1	3.00

It is expected that payment of installments will be made on or before due dates; failure to do so without the approval of the Bursar will result in an additional service charge.

No refunds are made to those leaving before the end of the semester except that in the case of those leaving before the middle of the semester because of illness one-half of the tuition and laboratory fees are refunded and in the case of those dropping out for good cause within a week of their registration all but $25.00 is returned. No refund is made on a room payment unless the room is re-rented to someone not then rooming in a college residence hall.

Students with unpaid bills are not given honorable dismissal or graduated. Seniors must settle all college bills and library obligations by four p.m. of the fourth day preceding Commencement if they are to receive their diplomas with their class.

Scholarships and Student Aid

The college offers an extensive scholarship and student aid program and approximately $135,000 will be available to Pomona students for scholarships, fellowships, grants-in-aid, and prizes during 1955-56. These funds are derived from endowments for scholarships and student aid, from individual and corporation donations, from the annual Alumni Fund, and from the general college budget.

Scholarships are awarded to students who achieve outstanding academic records and who need financial assistance to attend college. In making awards the Committee on Scholarships considers the candidate's promise in intellectual fields, his force of character and physical vigor, his probable interest in different aspects of the college community, and his leadership qualities.

Pomona College has adopted, with certain other West Coast colleges and universities, a joint policy aimed at achieving uniformity and equity in the distribution of scholarship funds to entering students. All these institutions make a distinction between 1) recognition of academic honors and achievement, and 2) recognition of need for financial assistance. Honors at Entrance are awarded in recognition of distinguished academic achievement. They are awarded without regard to need and carry no monetary grant. No special application is required for Honors at Entrance because all high ranking candidates for admission are considered for these awards. Scholarship grants are awarded in recognition of need for financial assistance. The academic record and apparent promise of candidates will determine the selection of those to receive these scholarships, but the size of the stipend will be determined in accordance with need. Entering students in need of assistance should apply for scholarship grants by filing an application on forms provided by the College by March 1, 1956.

SCHOLARSHIPS FOR FRESHMEN

FOUR-YEAR SCHOLARSHIPS

George F. Baker Four-Year Scholarships: Pomona is one of twelve colleges to receive grants from the George F. Baker Trust of New York, for the purpose of awarding scholarships to outstanding young men. The plan of the Baker Trust is to seek out future leaders of American society and to

make it financially possible for them to attend college. Four or more scholarships will be awarded with stipends which may go as high as $1250 annually, according to financial need. Open to men students only.

The Union Carbide Scholarships: Pomona College is one of a group of institutions participating in a nationwide scholarship plan established in 1953 by the Union Carbide and Carbon Corporation. These scholarships are designed to give aid to promising men and women who have an ambition to follow careers in business or industry. Three scholarships covering the complete cost of tuition for the full four-year academic course, with a reasonable allowance for necessary books and required fees, are available in each entering class at Pomona. Applicants must have good scholastic standing, be recommended by their schools, and either need financial assistance or possess extraordinary talent or ability.

Lockheed Scholarships: The Lockheed Aircraft Corporation has established at Pomona a four-year scholarship for students concentrating in a subject applicable to a career in the aircraft manufacturing industry. Such fields of concentration may be either in the sciences or the social sciences. Lockheed Scholarships include full tuition and $500 a year toward other college expenses.

Alumni Four-Year Scholarships: Five or more scholarships will be awarded from the Alumni Scholarship Fund with stipends which may go as high as $1,000 annually according to financial need. These scholarships are awarded not only on the basis of the academic record but also on the all around contribution to the life of the secondary school and community, and the promise of such contribution in college and afterwards. Open to men or women students.

Pacific Employers Insurance Company Scholarships: A four-year scholarship in each entering class, for a young man planning to enter any field of business, has been established at Pomona College by the Pacific Employers Insurance Company. Stipends are based on financial need and may be as much as $1000 annually.

Maria K. Lloyd Scholarship: This four-year scholarship is available to an outstanding candidate who is now a resident and citizen of Greece or Turkey. The amount of the award will be determined by the student's need. It may cover as much as all college expenses for the full four years.

The Frank H. Merrill Memorial Scholarship: A four-year scholarship, to be awarded to a student whose interest is primarily in the field of science, includes full tuition of $800 plus as much as $500 a year toward other college expenses. This scholarship has been established by Mr. Willis H. Merrill, '30, in memory of his father.

ONE-YEAR SCHOLARSHIPS

The following scholarships are available to candidates for admission to the freshman class in the year 1956-57. Half of the stipend is available in the first semester and half in the second semester of

the freshman year. The award for the second semester is normall made only if the recipient is in good standing and has maintaine a scholastic record of B or better. The stipends for all scholarship will be determined according to financial need.

The Henry E. Storrs and Julia A. Storrs Scholarships: Two scholarship with maximum stipend of $800 each, open to men.

The Margaret Burton Harwood Scholarships: Two scholarships, wit maximum stipend of $800 each, open to women. Two scholarships with max mum stipend of $800 each, open to both men and women.

The Thomas J. Dowling Scholarship: One award of $525, open to a man c woman.

The Henry G. Brainerd and Fannie Howard Brainerd Memorial Schola ships: Two awards, with maximum stipend of $800 each, open to men an women.

College Scholarships: Seven to ten scholarships depending on stipenc offered. May be as much as $1000. Open to men and women.

California Scholarship Federation Award: A scholarship with maximur stipend of $800 given by Pomona College to a man or woman nominated b the California Scholarship Federation.

Chemistry Contest Scholarship: A scholarship with maximum stipend c $800 is offered by Pomona College to a winner in the annual High Scho Contest sponsored by the Southern California Section of the America Chemical Society. The recipient must be among the top fifteen contestant and must satisfy all entrance requirements of the College.

The Physics Contest Scholarship: A scholarship with maximum stipend c $800 is offered by Pomona College to a winner in the annual High Scho Contest sponsored by the Southern California Section of the America Association of Physics Teachers. The recipient must be among the top fiftee contestants, and must satisfy all entrance requirements of the College.

JUNIOR COLLEGE SCHOLARSHIPS

The scholarships listed below are available for candidates fron Junior college, for the year 1956-57, half of the stipend being avail able in the first semester and half in the second semester of th year. The award for the second semester is made only if the recipien is in good standing and has maintained a scholastic record of B o better. Candidates for Junior College scholarships are required t take the Scholastic Aptitude Test given by the College Entranc Board. For further information see pages 30 and 32 in this catalo The following scholarships are reserved specifically for applicant

from Junior College. In addition, applicants from Junior College may also be considered for awards listed under General Scholarships.

Two-Year Scholarships: One or more, with maximum stipend $1000.

One-Year Scholarships: Two or more awards with maximum stipend of $1,000 each.

Alpha Gamma Sigma Scholarship: One award with maximum stipend of $800 given by Pomona College to a candidate who is recommended by Alpha Gamma Sigma.

GENERAL SCHOLARSHIPS

The Amélie Augustine McAlister Scholarships: The late Mrs. Amélie McAlister Upshur of San Marino established at Pomona a fund of $100,000, the income from which provides scholarships for women. McAlister Scholarships are available to women in any class who need financial assistance to attend college.

The James Irvine Scholarships: A scholarship fund of $60,000 has been established by the James Irvine Foundation, the income from which will be used to assist both men and women students at Pomona College in paying their tuition, board, lodging, and other expenses incidental to their education at the College. These scholarships are limited to students residing in the State of California, preference to be given to those in Orange County.

The Charles Harvey Rodi Memorial Scholarship: A scholarship of $1000 established by Mrs. Lucina Rodi Updegraff, is available annually to a man studying toward a career in medicine. The award is made on the basis of ability and need, and may be available to the same student for more than one year, all at the discretion of the Committee on Scholarships.

The Mississippi Scholarship: An endowed scholarship, with income of approximately $700 annually, has been established anonymously as a tribute to the donor's native state. Open to a man or woman in any class.

The Kemper Foundation Scholarship: One two-year scholarship of $800 per year is available from the James S. Kemper Foundation for a student who intends to enter the field of insurance administration. The scholarship is available to students entering from Junior College or to students at Pomona College at the beginning of the junior year. The foundation will assist the incumbent in obtaining vacation employment with a casualty or fire insurance company, and on graduation will assist him in obtaining regular employment at current salary rates with a casualty or fire insurance company, in the expectation that such employment will continue for at least two years. A further grant may be available for a year of post-graduate study.

The Frank Wilson Stafford and Julian Tate Stafford Scholarship: A memorial scholarship of $800 per year, available to a man in any class, has been established by Mrs. Grace T. Stafford of Pasadena.

The A. L. Hobson Memorial Scholarship: A scholarship of $650 open to a man student from Ventura County, California, who needs financial assistance to attend college. The recipient may be a member of any class at Pomona.

The Arthur Noble and Frances W. Noble Scholarship: A scholarship of $575, endowed by the late Mr. and Mrs. Arthur Noble, is available annually to a student in any class who needs financial assistance.

The Paul Mylrea Holden Scholarship: An annual scholarship of $525 established by Mrs. Susie Mylrea Holden in memory of her son, is open to students who need financial help. It may be awarded to a member of any class at Pomona.

The Everett S. Olive Orchestral Scholarship: An annual scholarship of $260 is awarded to a qualified student on the basis of musical ability on an orchestral instrument. It is endowed anonymously in tribute to Everett S. Olive Emeritus Professor of Piano, whose interest has been an important factor in the development of the orchestra. It is normally given to a freshman. The scholarship is awarded on the joint recommendation of the Music Department and the Committee on Scholarships. An audition is normally required.

Orchestral Scholarship: An annual scholarship of $260 to a qualified student who will continue study of his instrument in the Pomona College Music Department. Awarded on the basis of musical ability and orchestral competence. Will normally be given to a Freshman after audition by the Music Department

The Walter H. Parsons and Hazen M. Parsons Memorial Scholarship: A scholarship of $200 given in memory of Walter H. Parsons, '04, and Hazen M. Parsons, '09, is available annually to a man or woman in any class who needs financial assistance to attend college.

The Olivia D. Baker Scholarship: The Olivia D. Baker Scholarship has been established in memory of Mrs. Olivia Dennison Baker. The scholarship is open to students of a minority race with preference given to negro candidates. The amount of the award will be determined by the student's need, up to $1,000 annually. It is open either to men or women, to freshmen or transfer students.

The Donald Houghton Bacon Scholarship: The parents of Donald H. Bacon, who died at the college in 1948, have established in his memory a $5000 scholarship fund, the income of which provides an annual award to a deserving student who prepared for college at the Tucson, Arizona, High School, and who is recommended by the Superintendent of Schools in Tucson. If in any year no graduate of the Tucson High School is recommended for the award, it may be made to a senior student at Pomona College, who upon recommendation of the faculty is considered the outstanding member of his class with respect to excellence in class work, athletic ability and general participation in campus activities.

SCHOLARSHIPS FOR MATRICULATED STUDENTS

The Scholarships listed below are available during 1955-56 for students who attended the college during 1954-55, and who have satisfied the matriculation requirements. They are not available to entering students. These scholarships are awarded in open competition but normally require a grade point average of approximately 3.5. Half of the stipend is available in the first semester and half in the second semester of the year. The award for the second semester is normally made only if the recipient is in good standing and has maintained a scholastic record of B or better. The degree of financial need is taken into account in the awarding of all scholarships. Applications for these scholarships should reach the committee by May 15.

The Frank G. Butler Scholarships: Five scholarships with maximum stipend of $800 each, awarded to sophomores, juniors, or seniors who have achieved scholastic distinction.

The Olivia Phelps Stokes Scholarships: Three scholarships with maximum stipend of $800 each.

College Scholarships: Fifteen or more scholarships with maximum stipend of $1000.

The Haynes Foundation Scholarships: A tuition scholarship of $800 and a tuition-subsistence scholarship of $1250, have been established at Pomona College by the John Randolph Haynes and Dora Haynes Foundation, to assist deserving senior students in the Social Sciences. The criteria of award include exceptional scholastic record, character, promise of professional growth, industry, and need. It is also desired that the candidates obtain some kind of internship experience in their chosen fields, or be required to write a special senior thesis.

The Kappa Delta Honor Scholarship: An annual scholarship of $700, established in 1926 by alumni members of Kappa Delta Fraternity and administered under a special committee, is awarded at the beginning of his senior year to an outstanding all-around man, who shows qualities of character, intellect, leadership, sportsmanship, and proficiency in athletic pursuits. The recipient must have been in residence during all three lower years, and must rank in the highest third of all the men in his class.

The Phi Beta Kappa Scholarship: A scholarship of $200 endowed by the Pomona Chapter of Phi Beta Kappa is awarded at the beginning of the second semester to a senior who has been in residence for three years at Pomona and who is selected for the high quality of his scholarship and his promise of future distinction. The award is open to both men and women.

The Nu Alpha Phi Memorial Scholarship: A scholarship of $700 endowe by the members of Nu Alpha Phi Fraternity and awarded to a man at th beginning of his junior year. Selection is made by a special committee on th basis of outstanding character and real financial need, the latter partiall determined by records of student employment during the school year. Give in memory of the Fraternity's losses in World War II.

The Flora Sanborn Pitzer Memorial Scholarship: A scholarship of $500 fron The Sanborn-Pitzer Foundation, established by Russell K. Pitzer of the clas of 1900 in memory of his wife, is available to a woman student in the sopho more, junior, or senior class who has shown scholarship ability and who re quires financial assistance to remain in college.

The Alice M. Sanborn Scholarship: A scholarship of $525 annually endowed by the late Alice M. Sanborn, is available to a man selected by th Scholarship Committee as a representative student at the college, not neces sarily of the highest scholarship standing, but who has high moral character The candidate shall be selected at the beginning of his junior year, and shal receive the scholarship for both his junior and senior years in college, pro vided he shall remain, in the opinion of the Scholarship Committee, worth of continued assistance.

The Malcolm Eversole Memorial Fund: A scholarship providing ful tuition for a man in the Junior Class to be nominated to the Scholarshi Committee by the President of the College at the end of the nominee's secon year in Pomona College. The selection is based not on scholastic rank onl but on the possession of those personal qualities which indicate a high degre of promise in a student of outstanding character.

The Llewellyn Bixby Memorial Scholarship: A scholarship of $525 availabl annually to a man or woman who has completed the freshman year i Pomona College and who shows proficiency and genuine interest in science Given by Mrs. Llewellyn Bixby, '01, in memory of her husband.

Andrew Acker Sugg Memorial Scholarship: A scholarship of $800 avail able annually to a junior or senior man who shows promise of outstandin work in the field of science. This fund has been established by Mrs. Andrew Acker Sugg in memory of her husband.

The Andrew Fletcher Garst Memorial Scholarship: A sum of $300 will b awarded annually at the beginning of the senior year to a deserving man o woman student who has benefitted most from his college experience of thre years and who has also contributed substantially to the life of the college The selection of the candidate, whose major should preferably be in music art, or science will be made by a committee of nine students and the Dean of Men and Women. This award is given annually by friends in memory o Andrew Fletcher Garst, a member of the Class of 1952.

Bertha Lebus Scholarship: A scholarship of $660 endowed by Miss Bertha Lebus is available annually to a matriculated student attending the college. The recipient must be a person who shows a high degree of promise and who needs financial assistance.

The Associated Men Students Scholarships: The Associated Men Students of Pomona College offer annually two awards of $100 each. Each award is given to a man student at the end of his Junior year, one to the man who best exemplifies a combination of scholarship with leadership and proficiency in athletics, and the other to the man who best exemplifies a combination of scholarship with leadership and attainment in extracurricular activities. To be considered for either award a man must have maintained at least a B average in all his college work, and must have been in residence at Pomona for at least one year.

The Blair Nixon Memorial Award: An annual award of $150 is made from a fund established by his parents and friends in memory of Blair Nixon, '33, to a senior varsity letter winner who exemplifies the high ideals of the college in scholarship and sportsmanship. The award is made on nomination of a special committee and is presented to a Pomona man at the beginning of his senior year.

The Jessie Gibson Scholarship Fund: An Associated Women Students Fund for scholarship awards to members of minority groups who exhibit high qualities of character, leadership and scholarship. The awards will be administered by the A.W.S.

DEPARTMENTAL SCHOLARSHIPS

ART

The Hannah Tempest Scholarships: Two scholarships of $130 each are awarded annually to a man and a woman studying art, in accordance with conditions laid down by the donor, Mrs. Hannah Tempest Jenkins.

ASTRONOMY

The Shatto Memorial Scholarship: A scholarship of $260 is provided annually from the income of the Walter O. Shatto and Clara R. Shatto Memorial Funds for a qualified upperclassman or graduate student majoring in the Department of Astronomy, the candidate to be selected on the joint recommendation of the department and the Scholarship Committee.

GEOLOGY

The Richard E. Strehle Memorial Scholarship: A scholarship of $375 established in memory of Richard E. Strehle, '41, who was killed in action in the Philippines in World War II, is awarded annually to a junior or senior man with the physical, mental and moral qualities desirable in a field geologist.

Choice is made near the end of the sophomore or junior year, on nomination by the Geology Department to the Scholarship Committee. The award may be withheld in any year, and additional awards may be made in years when extra income is available.

MATHEMATICS

The J. Carlyle Bryant Scholarship: Established by Mr. and Mrs. George W. Bryant in memory of their son, J. Carlyle Bryant, '45. Available to an outstanding, all-around man in any class at the college, who possesses qualities of character, scholarship, and athletic ability, and who is particularly interested in mathematics. The amount of the scholarship varies from $500 to $900, depending on the need of the recipient. If there should not be a properly qualified candidate in mathematics, the scholarship may be awarded to a student in one of the other physical sciences.

MILITARY

The advanced course of the Reserve Officers' Training Corps consists of Military Science III and IV. Students who have completed the basic course (Military Science I and II) or who are accorded equivalent credit because of military or naval service are eligible for selection to the advanced course. Students selected for the advanced course enter into an agreement to complete the two year course and attend one summer training camp of six weeks duration. In consideration of this agreement, students receive from the United States Government cash allowances equivalent to a scholarship of about $320.00 a year. All necessary expenses in connection with camp, including transportation to and from the camp, food, housing, uniforms and medical attention are provided by the Government.

Advanced course ROTC students whose attainments in military science are outstanding may be designated by the Professor of Military Science and Tactics as "Distinguished Military Students." A number of distinguished military graduates of Senior ROTC Units may be selected upon application for direct Regular Army appointments.

The number of students admitted to the advanced course is controlled by the needs of the Army and the number recommended by the college authorities as being well-qualified to pursue the course. The selection of students for enrollment in the advanced course is based upon excellence in military training and suitability for appointment as second lieutenants in a branch of the U. S. Army Officers' Reserve Corps. Students who present evidence of above average records while in military or naval service, or who have distinguished themselves in the basic ROTC course of this or other schools will receive special consideration in the selection of those students to be enrolled in the advanced course.

MUSIC

The Kate Condit Memorial Scholarship: A scholarship of $100, endowed by the late Mr. and Mrs. A. P. Condit, is awarded annually to an outstanding student in the Department of Music.

The William J. Howard Memorial Scholarship Fund: Established by alumni and friends in memory of William J. Howard, '14. A scholarship of $160 is awarded annually to a student for lessons in applied music.

The Presser Foundation Scholarships: A fund of $250 is given to the college annually by the Presser Foundation of Philadelphia, for the assistance of music students. Scholarships from this fund are awarded by the Music Department. It is planned for students who are interested in music education or other advanced work in music.

PHYSICS

The Richard P. Edmunds Memorial Fund provides a scholarship of full tuition for an upper division man student (preferably one who has attended Pomona during the first two years) nominated to the Scholarship Committee by the Professor of Physics.

RELIGION

The Claremont Church Scholarship: A scholarship of $250 to be awarded each year to an upperclass student planning on life-time Christian service or to a senior about to enter seminary training. Choice is made in the spring by the Scholarship Committee upon nomination from the Department of Religion acting in consultation with the minister and a member of the World Service Committee of the Claremont Church.

FELLOWSHIPS AND SCHOLARSHIPS FOR GRADUATE WORK

The following awards may be made for 1956-57 to graduating seniors if qualified applicants appear. Applications for these fellowships should be in the hands of the Committee on Scholarships by March 15, 1956, except in the case of the Harsh Fellowship, application for which should be made to the Claremont Graduate School.

The Henry Martyn Bracken Foundation and the *Emily Robinson Bracken Foundation* provide two or more fellowships for graduate work in the Claremont Graduate School. When in any year a graduating senior does not qualify for the award, the stipend may be given to an undergraduate student in Pomona College.

The C. E. and Bertha M. Harsh Memorial Scholarship Fund in the Claremont Graduate School provides income for scholarship aid to Pomona College graduates. Although the Board of Fellows is empowered to make grants of the income for the assistance of any capable and promising graduates of Pomona College attending the Claremont Graduate School, it is the preference of the donors that first consideration should be given to those who are doing advanced work in the Fine Arts.

The William Lincoln Honnold Foundation provides a fellowship with a stipend determined by the committee of award according to individual circumstances. The award is open normally only to graduating Seniors who have done four full years of work in Pomona College, who are rated in the upper half of the graduating class on the basis of their performance during both the junior and senior years, and who wish to continue their studies either in the Claremont Graduate School or elsewhere in America or abroad.

The prime purpose of the fellowship is to promote original and creative achievement in the candidate's chosen field of activity rather than merely to reward faithful classroom work. Preference will be given to candidates preparing for scholarly rather than professional work. The selection will be based not on scholarship only but on the possession of those personal qualities which indicate a high degree of promise in a student of outstanding character. The plans for graduate work are to be made in consultation between the candidate and the Committee on Scholarships, the committee having final authority.

University of Chicago Law School Scholarship: A scholarship in the School of Law at the University of Chicago will be awarded by the Pomona College Committee on Scholarships. Stipend is normally $720 and is renewable for two years if the student's record is satisfactory.

The Committee on Scholarships also nominates students of Pomona College who wish to apply for awards by other institutions and foundations.

CLAREMONT GRADUATE SCHOOL SCHOLARSHIPS

In addition to the awards for graduating seniors offered through Pomona College, scholarships for graduate work are available at the Claremont Graduate School.

Three Honnold Scholarships, ranging from $750 to $1,200, are awarded in the field of Oriental Affairs. General scholarships of $750 to $1,200 each are available for work in the field of the candidate's choice. A few graduate assistantships with half tuition in the Claremont Graduate School are available through Pomona College and Scripps College.

STUDENT AID

In addition to the scholarship awards, the college is able to make some grants-in-aid available to students doing satisfactory academic work who require financial assistance to continue at Pomona. To this end the income of certain endowed funds is supplemented by a budget appropriation. Normally applications for aid can be considered only from students who have completed one year in

Eli P. Clark and Helen R. Walker Dormitories for Men

Wing of Clark Hall, Men's Dormitory

Mabel Shaw Bridges Auditorium After a Convocation

Entrance to Mudd-Blaisdell Residence Halls for Women

Entrance to Frary Dining Hall

Sumner Hall, Pomona's First Building, Houses the College Administration

Patio of Harwood Court — Residence Hall for Women

The Outdoor Swimming Pool Furnishes Opportunity for Year-round Recreation

'omona College, who are or intend to become candidates for a egree from Pomona College, who maintain a high standard of onor, who are economical in their habits, who are regular in their ttendance upon college exercises, and who maintain at least C grade ı their scholastic work. Recipients of grants-in-aid are expected to ırn part of their college expenses by employment during vacations ıd term time.

Aid may be withdrawn at any time from students who prove not) have conformed to the conditions.

If a student who has received a grant-in-aid transfers to another stitution of comparable cost before graduation the total sum anted him by Pomona College will become a loan, repayable cording to the terms applicable to regular student loans.

It is customary to extend loans only instead of grants to students ho are in the second semester of the senior year.

All applications for aid should be made to the chairman of the ɔmmittee on Scholarships and Student Aid, Sumner Hall, before ay 15 for the following academic year. Emergency requests for the cond semester should be submitted before January 15 for the cond semester of the current academic year.

STUDENT AID FUNDS

The income from the following funds is available for student aid:

The Francis Bancroft Memorial Fund of $1500, given by Mrs. James T. rd in memory of her father.

The L. H. Barrows Fund of $2500.

The H. G. Billings Memorial Fund of $1000.

The Florence G. Bixby Fund of $5000.

The Hagop Bogigian Fund of $31,402.

The Sherlock Bristol Memorial Fund of $400.

The Bessie A. Brown Memorial Fund of $800, given by Mrs. Fannie E. ɔwn.

The Henry Herbert Brown Memorial Fund of $1000 given by Mrs. Fannie Brown in memory of her son.

The Class of 1918 Fund, $961.

The Charles C. Cragin Memorial Fund of $5025, given by Mrs. Laura E. gin in memory of her husband, Rev. Charles C. Cragin.

The Agnes K. Crawford Memorial Fund of $1000, given by David I Crawford and William Crawford in memory of their mother.

Ebell Club of Pomona Student Aid Fund of $1000. To help a woma student.

The Elwood Fund of $2600, given by Mary E. Elwood.

The Ford Fund of $2500, given by Rev. James T. Ford.

The Margaret Fowler Fund of $1000.

The Orren A. Gorton Fund of $5000.

The Emma K. Guild Fund of $44,887.

The Manette Hand Memorial Fund of $1500.

The Alfred James Harwood Memorial Fund of $8000.

The Charles E. Harwood Fund of $5000.

The Thomas F. Howard Memorial Fund of $3500, given by Dr. ar Mrs. H. G. Brainerd in memory of Mrs. Brainerd's father.

The Mary Marvin Janes Fund of $679.

The Helen Day Jewell Fund of $1000.

The Henry L. Kuns Fund of $2000.

The Jean Loomis Fund of $2000.

The Howard J. Mills Memorial Fund of $3000.

The Ontario Congregational Church Fund of $186, given by the Ontar Congregational Church toward the endowment of a fund.

The Page Fund of $5000, given by Mrs. Loraine H. Page. (Three thousar dollars of this may at some time be used for other purposes.)

The Arthur Warren Phelps Memorial Fund of $2000, given by Mrs. C. Phelps and Mr. C. A. Phelps in memory of their son and brother.

The Lydia Phelps Memorial Fund of $4000.

The Pilgrim Church of Pomona Fund, $2002, given by the Pilgrim Cong gational Church of Pomona.

The Pilgrim Church Women's Auxiliary Fund of $556, given by t Women's Auxiliary of the Pilgrim Congregational Church of Pomona.

The John D. Potter Memorial Fund of $2000, given by Mrs. S. T. Potter memory of her husband.

The Anna H. Searing Fund of $1800.

The Clyde H. Shields Memorial Fund of $2000, given by R. P. Shields in memory of his oldest son.

The Lucia Glidden Strong Fund of $911.

The Sweet Memorial Fund of $2500, given by Harlan P. Sweet in memory of his wife.

The Maria T. Wardwell Fund of $1000.

The Clara B. Waterman Memorial Fund of $5000, given by Miss Rosa May Bennett.

The Henry S. West Fund of $2000.

SPECIAL FUNDS

The Crombie Allen Scholarship Fund of $1000, half of the income available annually to a graduate of Chaffey Union High School and half to a graduate of Chaffey College of Ontario, California.

The Martha E. Berry Memorial Fund of $6000, for foreign students.

The Mabel S. Bridges Memorial Fund of $3500, available for women.

The Alice Paul Harwood Scholarship Fund of $5000, open to graduates of Chaffey Union High School of Ontario.

The Stella M. King Scholarship and Loan Fund for Women, $10,000.

The Francis M. Price Fund of $1000, for children of missionaries.

The Willard E. and Henrietta P. Thompson Endowment Fund of $24,800, the income from which provides funds for one or more departments of the college to employ students for clerical or other work. Only those students who need financial assistance are eligible.

LOAN FUNDS

The college also administers loan funds by which it is possible to cooperate with the urgent need of students in making available to them amounts sufficient to cover tuition fees. Interest at the rate of 4% per annum begins on graduation or at the time of leaving the college. Loans from the following funds may be available, applications for which should be addressed to the Committee on Scholarships and Student Aid.

General Loan Fund of $74,641.

The Caroline Phelps Stokes Fund of $25,000, endowed by the will of Olivia Eggleston Phelps Stokes in memory of her sister, income from which available for loans.

The Ethan Allen Chase and Augusta Field Chase Fund of $5,527, available for men.

The Ray Loan Fund of $1450, given by Mrs. E. F. Ray, to provide a means of meeting situations of temporary need.

The David Clark Fund of $1162.

The Robert C. Denison Memorial Fund of $581.

The Edwin C. Norton Memorial Loan Fund of $1575, available for undergraduate students, or for graduates of the college who wish to pursue advanced work in other institutions.

The C. F. Baker Memorial Loan Fund of $282, available for undergraduate students, preferably juniors or seniors, in the departments of Botany and Zoology, who are approved by the heads of those departments.

The A. G. McKenna Loan Fund of $2993, available to graduating seniors for advanced work at the institution of the student's choice.

The Anna Bruce Memorial Loan Fund for Women, of $530.

The Ellen H. Lyman Fund of $280.

The Associated Women Students Loan Fund, administered by the Dean of Women at the request of the Associated Women Students, makes available for women students short term loans for personal emergencies. It is not normally used for loans to meet college bills. Interest at the rate of 4% begins after a period of two years.

The Associated Men Students Loan Fund, established in 1931, is available for loans in small amounts to meet personal emergencies or short-term personal needs of Pomona men. It is not intended to be used to pay college bills. For a special need a loan may be issued on a long-term basis. The interest rate is 4%. The fund is administered by the Dean of Men at the request of the Associated Men Students.

STUDENT EMPLOYMENT

The College endeavors to find employment for students needing to earn part of their expenses. Many are thus helping themselves by various forms of labor such as baby sitting, janitor work, waiting on tables, general house work and gardening.

Applications for aid in securing employment should be addressed to the Director of Placement Service, Sumner Hall.

PRIZES AND AWARDS

GENERAL

The following prizes and awards are available for general accomplishments and for proficiency in the work of the several departments:

The Rena Gurley Archibald High Scholarship Prize: A prize of $50 to be awarded to that member of the graduating class taking the B.A. course and ranking highest in scholarship was established by the bequest of the late Reverend Andrew W. Archibald, D.D.

The Arvid Pierre Zetterberg Award: From a fund endowed by Mr. and Mrs. A. P. Zetterberg in memory of their son, Lt. Arvid Pierre Zetterberg, an annual award of $50 is made to the sophomore man who during his freshman year exemplifies the highest qualities of character, scholarship, and interest in manly sports. The award is made on nomination of the Scholarship Committee and is presented at the Opening Convocation in September.

ART

The Rembrandt Club Art Prizes: A first prize of $25, and a second prize of $10, are awarded by the Rembrandt Club for excellence in drawing and design, in work presented for the annual student exhibition.

The Rembrandt Club Art History Prize: A prize of $10 is given by the Rembrandt Club for the best paper presented in the course in History of Art.

ASTRONOMY

The Moncrieff Astronomy Prize: A prize given to the student in the first year course in Astronomy, taken regularly in class, whose interest in the study and proficiency in the observatory work are indicated by the best notebook kept in accordance with the teacher's suggestion. A prize of $20 is given by Miss Flossie C. Moncrieff, '11.

BIOLOGY

The Vaile Prize: A prize of $15 to be awarded to an outstanding student in Botany or Zoology was endowed by the late Mr. Charles S. Vaile.

CHEMISTRY

The Stanley D. Wilson Prize: A prize of $50 endowed by Dr. Stanley D. Wilson is awarded annually to the student whose independent study in research shows greatest promise for creative work.

CHEMISTRY-GEOLOGY

The James A. Lyman Prize: A prize of $100 awarded at the beginning of the college year to a senior student majoring in chemistry or geology who, in the opinion of the chemistry-geology faculty, shows special promise of achievement in research or teaching, or both. Established in memory of Dr. James A. Lyman, Professor of Chemistry 1909-1926, by his son, Dr. George P. Lyman, '26.

EDUCATION

The Ada May Fitts Education Prize: A prize of $50 endowed by Mr. Charles T. Fitts in memory of his wife, Ada May Fitts, is awarded annually to a student for excellence in courses in the Department of Education and for unusual promise in the educational field.

ENGLISH

The John Dye Award: From a fund established by Mr. and Mrs. John Thomas Dye in memory of their son, John Thomas Dye, III, who was a Lieutenant in the Army Air Corps, is offered an annual award of $100 for the best piece of original writing to appear in a student publication. The award is announced at Commencement time.

The F. S. Jennings Memorial Prizes: Three prizes for men and three prizes for women of $50, $40, and $30, respectively, for excellence in English are available each semester to members of the Freshman class taking English I. In the award of these prizes attention is given to the interest shown by the student in improving the quality of his written and spoken English.

GOVERNMENT

The Edward M. Sait Prize: A prize of $5 for the purchase of a book relating to American or comparative government, or for a membership in the American Political Science Association, is awarded to the student doing the best work in the basic course in government.

The Russell M. Story Prize: A prize of $5 for the purchase of an appropriate book, or for a student membership in the American Society for Public Administration, is awarded to the student doing the best work in the course in public administration or in state and local government.

The George S. Burgess Prize: A prize of $5 for the purchase of an appropriate book, or for a subscription to a selected law review is awarded to the student doing the best work in the course in legal history or constitutional law.

INTERNATIONAL RELATIONS

The Cordell Hull Prize: An award of $50 is offered annually to the student who submits to the committee on International Relations the best essay on a problem relating to the United Nations. Subjects must be cleared with the secretary of the committee on or before April 1, and the essays, between 2500 and 3000 words in length, must be submitted in triplicate on or before May 1. In case no one essay is of outstanding merit, the committee reserves the right either to divide the honors or to make no award.

LATIN

The Mudge Latin Prizes: First and second prizes of $10 and $5, respectively, for excellence in Latin are endowed by friends of the College.

LIBRARY

The Eda May Haskell Library Prize: A prize of at least $15 in the form of a purchase order for books is offered for the best library submitted by a senior student, not necessarily for the largest or most expensive collection but for the most intelligently selected books in one or more fields of the student's interest.

MATHEMATICS

The Llewellyn Bixby Mathematics Prize: A prize of $10 for excellence in Analytic Geometry and Calculus; open to all students completing both Mathematics 1 or 52 and 65.

MUSIC

The Barbara Sanford Allen Prize: An annual competitive prize of $50 to be awarded to a student in the department of music, above freshman rank. This award is made possible by the husband and parents of a graduate of the Class of 1915 of Pomona College.

PHYSICS

The Tileston Physics Award: A prize of $50 to the junior student in physics whose record in course and department work is judged most promising.

The Tileston Survey Physics Prize: An award of $10 to the outstanding student in the Physics 1 course.

These prizes have been established by former students of Professor Roland R. Tileston and by members of his family.

PUBLIC SPEAKING

The Kinney Declamation Prizes: A prize declamation contest open to members of the Freshman class occurs early in the second semester. First, second, and third prizes of $25, $20, and $15, respectively, are endowed by Mrs. H. N. Kinney.

The Dole Debate Prizes: A prize debate for lower-division men is held near the close of the second semester. First and second prizes of $30 and $20, respectively, established by the late Mr. John H. Dole in memory of his brother, Mr. William B. Dole, are endowed by Mr. Arthur M. Dole, '96.

The Stella King Prizes: The opportunity to compete for prizes totaling $75 for speeches of their own composition is offered to upper-division students. The judges have the right to distribute the prize money among the contestants as they see fit, or to withhold all awards if they feel warranted in so doing. These prizes were endowed by the late S. H. Wheeler, in memory of Miss Stella King.

RELIGION

The Hager Prize: A prize of $10 for the best essay on a foreign missionary subject, open to all students, was endowed by the late Mr. and Mrs. C. R. Hager.

General Information

LIBRARY

Pomona College shares with the other Associated Colleges the facilities of the Honnold Library, which houses approximately 230,000 volumes. Pomona's own collection within this library consists of 138,000 volumes, 179,000 bound and unbound United States and California government documents, and an uncatalogued pamphlet collection. Pomona subscribes to 700 periodicals and maintains bound files of approximately 550, many of which are complete. Especially valuable are the periodical holdings in the field of natural science. The library is a depository for U. S. Government Documents, California State Documents, and the publications of the Carnegie Institution.

The following special collections are a part of the general library: the Cook-Baker Biological Library and the Parish Botany Library in Crookshank Hall and the Rancho Santa Ana Botanic Garden building; the James A. Lyman Memorial Library of Chemistry and the Geology Library in Mason Hall; and the Mathematics and Physics Library in Pearsons Hall. Housed in the main building are the Mason California, the Wagner North Pacific, the McCormick Korean Libraries, and the Viola Minor Westergaard and Carnegie Art Collections.

In addition to the Pomona College Library, the Honnold Library also houses the libraries of the Claremont Graduate School, Claremont Men's College, and a part of the library of Scripps College. The main Scripps College Library is housed in the Ella Strong Denison Library. It contains in addition to its general collection the Macpherson Collection of books about women, and the Stephenson Memorial Collection of American History.

PUBLICATIONS

The stated publications of the College are issued as numbers of the *Pomona College Bulletin,* which is published monthly except July and August. These include: the *Annual Catalog,* the *Report of the President,* and the *News Letter* for Alumni.

LECTURE FOUNDATIONS

The Joseph H. Johnson Foundation, endowed by Miss Ellen B. Scripps, provides an annual income for the purpose of bringing distinguished lecturers to Pomona for a protracted stay and intimate participation in college life.

The Clark Foundation, established by Mr. Arthur O. Clark, makes it possible for the College to offer each year a lecture or course of lectures in the general field of religion.

The Henry D. Porter Foundation, named in honor of the late Rev. Henry D. Porter, for many years a missionary in China, provides for a lecture by some prominent worker in the field of Christian Missions.

PUBLIC ASSEMBLIES

A general assembly of the college is held each Thursday at 11 a.m. for the purpose of hearing visiting lecturers or members of the faculty discuss topics of interest to the whole institution. This assembly period is also used for student body and class meetings.

On five stated occasions throughout the year, including the opening of each semester, College Convocation is held. Full attendance of both faculty and students is expected at these exercises.

RELIGIOUS ACTIVITIES

The four Associated Colleges at Claremont unite in a College Church which holds its services each Sunday morning at eleven o'clock in Bridges Hall of Music. The Church is the coordinating force for religious activities among the colleges. Students participate in the services and there is a special student choir for the Church.

The College Chapel, which is altogether a service of worship, is held every Tuesday morning from 11:00 to 11:25 in Bridges Hall of Music. Both students and faculty participate in the program, at which attendance is voluntary.

Various expressions of religious interest and forms of religious activity exist on the Pomona campus: worship, study and discussion groups, campus and community programs of service, and contacts with intercollegiate enterprises. These interests and their sponsoring organizations are united in the Pomona College

Christian Association as a central, campus-wide agency to encourag interest in religion and to develop religious activities. The Associatio maintains relationships with the national Student Christian Move ment and the World Student Christian Federation.

MUSIC

The College cooperates with Scripps College, Claremont Men' College, and the Claremont Graduate School in the presentation i Bridges Auditorium of the most distinguished masters in the fiel of music. Regularly included in the series is the Los Angele Philharmonic Orchestra.

For the concerts thus afforded an annual ticket is furnished t every full-time student without extra charge.

Under the auspices of the Pomona College Department of Music complimentary public recitals by individual students and member of the faculty and by groups are given frequently throughout th year. These are usually given on Monday evenings.

The College Symphony Orchestra, the Choir, the Men's an Women's Glee Clubs, the Band, and chamber music groups, affor opportunity for the study and public performance of the finest i ensemble music.

CAMPUS ORGANIZATIONS

The Associated Students. This association coordinates all studen activities. Its officers are chosen by the student body from amon their own number. All important questions are first considered b the Executive Council, a governing group composed of class presi dents and chairmen of other organizations representing variou activities of campus interest. These students are responsible not t the organizations which they represent on the Executive Counci but to the Executive Council itself.

Associated Men Students and Associated Women Students. Thes organizations consider and promote the special interests of the me and women respectively.

Class Organizations. Each of the four college classes is organize for the purpose of promoting class social life.

Phi Beta Kappa. The Pomona Chapter of Phi Beta Kappa is th Gamma of California. Upperclassmen "who are of good mora

haracter, who are candidates for the degree of Bachelor of Arts, nd who are distinguished for breadth of culture and excellence of cholarship" are eligible to membership in the Phi Beta Kappa ociety.

Honor Societies. Ghosts; Mortar Board; Gamma Chapter of lpha Kappa Delta, Sociology Fraternity; California Alpha Chapter of Kappa Mu Epsilon, National Honorary Mathematical Fraternity; Delta Sigma Rho, National Honorary Forensic Fraternity.

Departmental Organizations. El Circulo Español, Le Cercle rançais, German Club, Caduceans, Economics Club.

Musical Organizations. Men's Glee Club; Women's Glee Club; Music Club, Symphony Orchestra, Chamber Music Groups, Band.

Dramatic and Literary Organizations. Drama Productions Committee, Masquers and Thespians, in Dramatics; and Orchesis, in Dancing; MSS, literary magazine.

Other Organizations. Camera Club; Ski Club; Women's Recreational Association.

KPCR, a local radio station owned and operated by the students, overs the campuses of the Associated Colleges and provides radio xperience for interested students.

Local Social Fraternities. Alpha Gamma Sigma; Kappa Delta; appa Theta Epsilon; Nu Alpha Phi; Phi Delta; Sigma Tau. Each raternity has a club room in one of the residence halls on the en's campus. Approximately one-third of the men students belong o the fraternities which pledge new members during the sophomore ear. There are no sororities on the campus.

STUDENT PUBLICATIONS

he *Student Life* is published twice a week by the student body nd is devoted to campus affairs.

The *Metate* is the yearbook published by the Associated Students.

The *Hand Book,* which contains material designed especially for ew students, is issued at the beginning of the year by the ssociated Students.

SUPERVISION OF CONDUCT

Pomona College assumes that most of the matters which affec the College are of concern to both faculty and students and believe that the experience and the judgment of both should be taken int account in the management of much of the college life. For thi reason a large number of the policy forming committees of th college have both faculty and students as voting members. Thes committees now include the following: Admissions, Athletic Cour cil, Personnel, Public Events, Religious Activities, Student Affair and Vocational Counseling and Placement.

Pomona College assumes that its students, having voluntaril enrolled in the college, are in sympathy with its purposes an philosophy, and will abide by its accepted practices. This basi philosophy is that all members of the college community wil govern their conduct by standards of good taste and ethical judg ment. Any behavior on or off the campus which may bring dis credit to the individual or to the College may result in disciplinar action.

The use or possession of alcoholic liquors of any kind on th campus is prohibited by the college.

The faculty has placed the interpretation and execution of thes policies in the hands of the Committee on Student Affairs whicl consists of the deans and certain faculty members appointed b the President and four student members appointed by the Executiv Council of the Associated Students. Under this Committee as a policy-making body functions the College Life Council, composec of six faculty members appointed by the President and nine studen members elected partly by the student body and partly by th Executive Council of the Associated Students.

At the present time the College Life Council has been dele gated the responsibility for the administration of discipline, fo dealing with inter-class rivalry, for supervision of fraternities, fo regulations governing the use of automobiles, and for dealing witl infringements of academic honesty and honor.

The Judiciary Council of the Associated Women Students and th Judiciary Council of the Associated Men Students administer regu lations concerning conduct in the residence halls on their respectiv campuses, and, acting together as a joint body, carry out the policie of the College Life Council and act as a court or an advisory bod

n matters of discipline, except in those which are judged by the leans to involve serious problems of personality adjustment.

Individual or collective student enterprises which use the college ıame and involve the absence of the participants from the col-ege must receive the official sanction of the Committee on tudent Affairs.

AUTOMOBILES

Rules governing the use of automobiles are formulated and admin-stered by the College Life Council. Students maintaining cars in Claremont are subject to the following regulations:

Registration and liability: Ownership of the car, together with its icense number, must be registered with the office of the Dean of Men or the Dean of Women at the opening of college or within ıree days after the car is driven in Claremont. The student is re-ponsible for having on the windshield of his automobile the Po-ıona sticker issued at the time of registering the car. At the same me, the College Life Council also requires that owner furnish vidence of having liability insurance.

Student drivers must at all times, both on and off the campus, xercise particular care and consideration for the safety of them-elves and others, and must acquaint themselves with the state nd local traffic laws and comply with their observance.

Failure to comply with the above regulations shall constitute an ffense against the college, the penalty for which may include equestration and storage of the car at the student's risk and xpense for a period not beyond the end of the term in which the ffense occurs.

Campus Fee: Students who use the campus streets, grounds and arking lots for overnight parking will be charged a fee of $4.00 semester. Those who have their cars on campus during the day nly will be charged $2.00 a semester. Reduced fees will be charged or a period of less than one month.

MEDICAL AND PHYSICAL CARE

omona College, in cooperation with Scripps, Claremont Men's ollege, and the Claremont Graduate School, engages the full-time ervices of two physicians to care for its students.

The medical advice of the college physicians is ordinarily avai able, free of charge, to all students, subject to certain conditior of hours and location of residence. Minor ailments are treated a the Baxter Medical Building or at the Infirmary, which is used fc cases requiring nursing and certain types of hospital care. All su gical dressings and medicines are at the expense of the ill or injure as is also medical service in chronic or prolonged illness or in case c accident, or an acute illness beyond ordinary first-aid emergenc treatment. The college nurse visits the residence halls each mornin in order to see those students reported ill.

The student is entitled to two days each semester at the Colleg infirmary without charge for room and meals. If illness require hospitalization for additional days, the charge is $7.50 pe day. The College, however, reserves the right to discontinue thi individual medical service at any time, without previous notice.

The College does not assume responsibility for the complete mec ical care of all its students, but only in so far as its present facilitie will afford. Preventive medicine and campus health functions ar stressed in the college medical program.

The College has completed arrangements by which its student may purchase group health and accident insurance at special rate and it advises students to avail themselves of this opportunity Detailed information about this insurance may be secured fron the Dean of Students or from the college physicians.

Students are expected to conform to the medical regulations o the college.

PHYSICAL ATTENTION AND REQUIRED PHYSICAL EXAMINATIONS

The physical care of students is a matter of special concern to th college. The medical certificate required of all applicants prior t admission includes a certificate of recent successful small-pox vac cination and a certificate of satisfactory tuberculin test, or an x-ra of the chest, performed within the preceding six months. Any stu dent, while in college, may be required to present each year a follow-up certificate of examination for tuberculosis. Regular worl in physical education is prescribed throughout the four years.

Required examinations after admission: Every student on en

tering college is given a physical examination under the direction of the College Physician. All new students entering in the fall semester are required to complete the examination during New Student Days or by November 1, and those entering in February are required to complete it by March 1. Failure to meet this requirement within the announced time limits will result in the temporary withdrawal of the student's privileges of registration and class attendance until the requirement is met.

Each academic year a student is in residence he is required to complete a chest x-ray examination while the mobile x-ray equipment is on campus or within fifteen days thereafter. Failure to meet this requirement will result in the suspension of privileges of registration and class attendance until notice has been received from the physician of the Associated Colleges that the requirement has been met.

ATHLETICS

Pomona College and Claremont Men's College unite to conduct a joint program of intercollegiate athletics, under one coaching staff, as a member of the Southern California Intercollegiate Athletic Conference. Our teams, known as the "Sagehens," compete in football, basketball, track and field, baseball, cross country, swimming, golf and tennis.

In addition to the program of intercollegiate sports the College maintains an extensive program of intra-mural sports open to all men students.

The direction and financial management of athletics rest with the Director of Athletics, who has associated with him as an advisory body the Athletic Council, composed of three members of the Pomona Faculty, one member from the Claremont Men's College Faculty, three student members from Pomona and two student members from Claremont. Under the general manager, there is a student manager for each sport.

The college endeavors to safeguard students in the use of its physical education facilities, athletic fields, and gymnasiums, and to this end the department has established regulations concerning the use of such facilities, but it is clearly understood that students who use the same do so entirely at their own risk.

ASSOCIATED COLLEGES COUNSELING CENTER

The Associated Colleges maintain a Psychological Counseling Cente under the direction of a Clinical Psychologist. The Director of th Center, Dr. Robert Keith, works in conjunction with the colleg physicians, Dr. Gilbert S. Coltrin and Dr. D. Scott Fox, and with Dr Robert Hinshaw, a psychiatrist. The Center offers remedial instruc tion, vocational testing and consultation and counseling on persona and emotional problems. Most of the services are open to Pomon students without charge, including one consultation with th psychiatrist. The cost of any additional consultations with th psychiatrist must be met by the student, and a nominal fee may b charged for extensive counseling from the psychologist.

VOCATIONAL COUNSELING AND PLACEMENT

Through faculty advisers and the personnel services of the college students receive assistance in their choice of a career. The colleg maintains a vocational placement service for the benefit of alumn and students. Many alumni cooperate with the Director of th Placement Service in assisting seniors and graduates to find employment and to provide reliable occupational information concerning representative business organizations, government agen cies, the professions, and other opportunities for employment.

Each year conferences on careers for men and women are held on campus under the sponsorship of the academic departments and the faculty and student committees on vocational services.

A Vocational Information Center is maintained in the Honnold Library with information on vocations in this country and oppor tunities for placement abroad and for foreign study. Information on scholarships and fellowships for graduate study is made available to interested students by the Scholarship Committee, the Vocational Information Center at the Honnold Library and department offices

GRADUATE WORK IN THE CLAREMONT GRADUATE SCHOOL

Graduate work in history, oriental affairs, Latin America, political economy, psychology, literature, philosophy, the biological and physical sciences, and the fine arts and music, along with professional work in public school education and psychology, is

Student Body Officers Meet on Marston Quadrangle

Boxing Class Outside the Memorial Gymnasium

Ski Class on Mt. Baldy

Pomona-Claremont Voluntary Unit of the ROTC

onducted by the Claremont Graduate School, whose faculty in-ludes members of the staffs of Pomona College, Scripps College, nd Claremont Men's College, as well as its own appointees. A atalog will be furnished upon request to the Dean of the Claremont Graduate School, Harper Hall, Claremont, California.

INTERCOLLEGIATE PROGRAM

Jnder a grant from the Fund for the Advancement of Education f the Ford Foundation the Associated Colleges at Claremont are ooperating with Occidental College, the University of Redlands nd Whittier College in an Intercollegiate Program of graduate tudies in the Humanities and Social Studies. Those interested in he program should consult the Dean of the Graduate School.

SUMMER SESSION

The Claremont Summer Session is sponsored jointly by the Clare-nont Graduate School, Pomona College, Scripps College, and Claremont Men's College. A Bulletin describing summer work is ssued annually. Requests for information should be addressed to he Director of the Summer Session, Harper Hall, Claremont, California.

Pre-Professional Preparation

Although the liberal arts program at Pomona aims at a broa and fundamental education rather than specialized vocation training, the regular work of the college prepares students f direct entry into many vocations, as well as for specialized work graduate and professional schools.

National corporations each year employ thousands of college gra uates and train them for executive positions. Though such senio have often majored in economics, government, or science, mar employers consider the field of study less important than characte maturity, and intellectual ability demonstrated by successful colle work. Many women with a Pomona degree go directly in responsible positions in business and the professions.

Positions as industrial chemists, physicists, and geologists, as w as Federal and State Civil Service positions, are available to Pomo graduates without further study. Majors in mathematics are demand by both business and industry. English majors may go in advertising, public relations, journalism, or publishing. Graduat in botany often find positions with the Forest Service or the Nation Park Service. In many counties of California, sociology majors c go directly into social work with the B.A. degree. Graduates wh have concentrated in the social sciences are eligible to take compe tive examinations for a variety of civil service positions, such Junior Management Assistant, and other federal or state offic Pomona graduates interested in careers in the Foreign Service a eligible to take the examinations given by the State Departme which is at present conducting a recruitment program.

More than half of Pomona's graduates go on to professio schools. Most departments of the college prepare students f advanced work in graduate school. Some of the professional opp tunities are listed below.

BUSINESS ADMINISTRATION

A concentration in economics is ideal preparation for the stude who plans to attend a graduate school of business, to pursue advanced degree in economics, or to enter one of the special busin training programs for college graduates.

DENTISTRY. See Medicine.

ENGINEERING

Students at Pomona College who plan to enter a professional ngineering school have an opportunity to obtain an excellent oundation in mathematics and physical science in addition to a vell-balanced liberal training. Such students should consult with nembers of the staff in physical science who are acquainted with ngineering school requirements. Two special programs, described elow, have been established, but Pomona graduates are prepared o enter other engineering schools as well.

COMBINED PLANS WITH MASSACHUSETTS INSTITUTE OF TECHNOLOGY AND CALIFORNIA INSTITUTE OF TECHNOLOGY

ALONG WITH SEVERAL other liberal arts colleges, Pomona has an rrangement with the Massachusetts Institute of Technology nd with the California Institute of Technology whereby qualified udents may receive the Bachelor of Arts degree from Pomona nd a Bachelor of Science degree from M.I.T. or C.I.T. after a mbined five-year program, of which the first three years are ken at Pomona. Without the combined plan at least six years ould usually be required to complete the work for both degrees. udents under the combined plan will be accepted at the Massa- usetts Institute of Technology or the California Institute of echnology without examination if recommended by Pomona.

In satisfying the Lower Division Distribution Requirement of mona College, the humanities requirements of the particular stitute should be carefully considered in consultation with the viser. In addition, the following Lower Division courses should rmally be completed.

Physics 51	Engineering Drawing 7ab
Mathematics 1 or 52	Engineering Drawing 40ab
Mathematics 65	Chemistry 1 or 59

Satisfaction of the Pomona College concentration requirement in e-engineering for those students who transfer at the end of e junior year shall include at least 24 Upper Division units

selected from the following courses in consultation with the Facult adviser. Starred courses shall normally be included.

Mathematics 151a*, 151b
Mathematics 102*
Physics 110*
Physics 113a*, 113b
Physics 141a*, 141b
Physics 142a*, 142b
Physics 153
Physics 154
Physics 155

Students planning combined programs in specialized fields suc as chemical engineering, architecture, food technology, and cit planning will approximate the above requirements on a unit bas but with substitution of more suitable courses where deemed advi able after consultation with the Faculty adviser.

Those students concentrating in pre-engineering and who plan t graduate after four years at Pomona College shall complete 36 uni in Upper Division courses selected from the above list and from th additional list below:

Mathematics 118
Mathematics 119
Mathematics 210
Physics 156
Physics 191
Engineering Drawing (up t 4 units in courses numbere over 100)

JOURNALISM

On the recommendation of graduate schools of journalism and distinguished journalists, students planning a career in journalis are advised to concentrate in any principal field of study, to secu a broad and liberal education, and to improve their mastery of th art of writing. Courses in the social sciences, literature, the art and foreign languages are strongly recommended.

LAW

Adequate preparation for the study and practice of law requir the completion of an undergraduate program in the liberal ar leading to the baccalaureate degree. The best law schools do n require any particular undergraduate concentration; they are inte ested in breadth of background and quality of work. Lawyers ar law schools agree that the ability to write and speak with clari and precision is of paramount importance. A broad foundation government, economics, and history is essential; accordingly if t

student concentrates in one of these, he should be sure to supplement his choice with courses in the other fields.

LIBRARY SCIENCE

A BACHELOR'S degree, the ability to use the typewriter with accuracy and speed, and a reading knowledge of at least two modern foreign languages are usually prerequisites to admission to a library school. All librarians will find a knowledge of statistical methods useful. Students expecting to take up public school library work in California are required to complete nine hours in education. Although it is not a prerequisite, actual experience in a library is a distinct advantage.

MEDICINE AND DENTISTRY

ALTHOUGH THE curriculum below is suggested for preparation for medical or dental school, it is not necessary for prospective candidates in medicine or dentistry to elect it as a concentration. Admission to professional school is possible from any concentration, such as English, Philosophy, History, etc., as long as the basic science requirements are met.

Minimum requirements for entrance to medical and dental colleges have been designated by the Council on Medical Education of the American Medical Association and by the Council on Dental Education of the American Dental Association. Many of the leading colleges in these fields, however, have requirements well beyond this minimum, and are selecting only those candidates who are best prepared and have demonstrated high scholastic ability and laudable personal traits. Pre-professional students are advised not to attempt to crowd the minimum requirements into three years of college, but to follow a program planned to give breadth of view and a thorough grounding in the fundamentals of the biological and physico-chemical sciences.

The curriculum outlined below meets the requirements for graduation from Pomona College and the entrance requirements of most of the medical and dental colleges in the United States.

REQUIREMENTS FOR CONCENTRATION

Lower Division Courses: Zoology 1; Chemistry 1, 59; Mathematics or equivalent; Physics 51, 52.

Upper Division Courses: 24 units minimum; Chemistry 106, 110a 111a; plus 17 upper division units selected from one or more of the science departments.

SUGGESTED COURSES

FRESHMAN YEAR: English 1; Chemistry 1; Zoology 1; History 1.

SOPHOMORE YEAR: Chemistry 110, 111; Mathematics 1; Zoology 117 (required by medical schools of California). Electives from language, literature, art or music; philosophy or religion.

JUNIOR YEAR: Chemistry 59, 106; Physics 51, 52. Advanced language electives from the social sciences.

SENIOR YEAR: Electives in science to complete concentration, Speech 52a, English 63 plus electives in other areas to complete graduation requirements.

Some medical and dental colleges require a reading knowledge of French, German or Spanish, with a preference for German. Students planning to study medicine should anticipate this requirement by taking some language in high school followed by at least one year in college. Students will find it advantageous to take trigonometry in high school. In addition students should consult with their adviser to determine the specific admission requirements of several medical and dental schools to which they wish to apply and to learn the proper time to take the Medical College Admission Test or the Dental Aptitude Test. These tests are required for entrance into most medical and dental colleges.

PRE-NURSING STUDIES

STUDENTS INTERESTED in pre-nursing should consult the Zoology listing concerning the Zoology-Chemistry concentration.

PUBLIC SCHOOL TEACHING AND ADMINISTRATION

IN CALIFORNIA every public school teacher must have a credential granted by the State Department of Education. The teaching credential is also the basic requirement for certification as a school administrator. California requires students who wish a *secondary* credential to complete a bachelor's degree and one year of graduate work. This program must include a teaching major of 36 units and

a teaching minor of 20 units in fields commonly taught in the high schools of the state. The two fields must be selected from the following: social studies, life sciences, physical sciences, English, speech, language arts, foreign language, mathematics, health education, agriculture, art, business education, home-making, industrial arts, librarianship, music, physical education, and conservation education. Students majoring in areas not listed must present two teaching minors from among the listed fields. Most prospective secondary school teachers will concentrate at Pomona College in the area or areas they expect to teach.

The minimum state requirement for the *elementary* and the *kindergarten-primary* credentials is a four-year baccalaureate program. Several California colleges and universities, of which Pomona College is one, feel that a graduate program of professional study is as desirable for elementary as for secondary teachers. The college therefore presents a program for prospective elementary school teachers which involves a fifth year of study, though appropriate program planning well in advance will permit completion of the minimum credential requirements in 4½ years. Students preparing for these credentials are not required to present majors in specific fields. The concentration in education, (page 100) is especially designed to serve prospective elementary teachers, but such concentrations as psychology, art, music, physical education, and speech are equally acceptable.

The post-graduate study for elementary and secondary credentials may be taken at the Claremont Graduate School (one of the Associated Colleges at Claremont) or at any other college accredited by the state for teacher education. Each graduate school prescribes its own program for fulfilling credential requirements and these programs vary greatly. Students planning to secure teaching credentials are advised to consult with the Education department early in their college careers to avoid unnecessary delays in completing these requirements.

SOCIAL WORK

STUDENTS WHO plan to follow social work as a profession should attend a graduate school of social work, since the counties with highest standards accept only workers with at least one year of graduate training. Also, one seldom advances to the higher admin-

istrative positions without such training. The regular undergraduate concentration in sociology will prepare one adequately for entrance into graduate school.

Introductory statistics and psychology should be included. Economics 111 and Government 103 will be found useful. In the Pacific Southwest the ability to speak Spanish is very helpful, though not essential.

THEOLOGY

Students planning to prepare themselves for Seminary or Divinity School training, with a view to entering the parish ministry or college teaching in religion, can most profitably fulfill their requirements for concentration in one of the following departments: English, History, Philosophy, Psychology, Religion, or Sociology, or in the trans-departmental program in Modern Social Institutions.

Students planning to prepare themselves for Seminary or Divinity School training with a view to entering the field of religious education, are advised to concentrate in Religion in their undergraduate studies.

The Curriculum

THE PURPOSE OF Pomona College is to prepare students for a society which expects of them leadership in diverse roles and offices, humble or great. The college endeavors to help its tudents toward a life in which professional achievement is ccompanied by personal happiness, cultural balance, and social esponsibility. Its program, therefore, includes courses intended for eneral education as well as courses designed for specialized study nd preprofessional training.

The immediate objective of general education, as expressed in the ourse requirements of the College, is to help the student develop:

1. Ability to use the English language effectively, in reading, in writing, and in speech.
2. Knowledge of scientific thought and method.
3. Understanding of the historical development of our civilization.
4. Understanding of human society, its problems and its institutions.
5. Understanding of the nature and operation of the American economic and political institutions.
6. Knowledge of literature and the fine arts.
7. Awareness of ethical and spiritual values.

/ith these purposes in mind, the College expects that certain urses be taken in the Freshman and Sophomore years.

To secure the benefits of intellectual discipline derived from ncentrated study, and at the same time, in many instances, to epare for professional training after graduation, every student on entering the Sophomore year is required to select a field of ncentration in which he will complete not less than twenty-four its of upper-division work during his Junior and Senior years. ie field of concentration may be represented by one department may extend beyond departmental limits to include closely lated subjects. For students of outstanding ability and well-defined terests, the field of concentration may be developed into a proam of honors study. These requirements and programs of study e described in detail in the following pages.

FACULTY ADVISERS

Each new student is assigned to a faculty adviser. Advisers t
Freshmen are general advisers who assist Freshmen in the selectio
of courses and general adjustment to the academic life of the Colleg
At the end of the student's first year and in the light of his academi
interest an adviser is assigned with whom the student will wor
during the remainder of his college course. If at any time a chang
is deemed wise it is made through the Dean of Students.

SUMMARY OF REQUIREMENTS FOR THE DEGREE

Pomona College awards only the bachelor of arts degree. Com
mencement honors, *cum laude, magna cum laude,* and *summa cu
laude,* are awarded on the basis of the over-all average of the student
work, and of the comprehensive examination.

Units: 126 units (semester hours) of work are required for graduatic
except for those students who, because of physical handicap or transfer fro
an institution not having the requirement, are excused from all or part of t
required Physical Education. In such instances, and only by vote of t
Classification Committee, students may graduate with as few as 120 uni
(See Physical Education Activities.)

A "unit" consists of one recitation or lecture period, or one laboratory peri
a week for one semester. A recitation or lecture period covers fifty minute
a laboratory period covers, in general, the time of three such periods. In ord
to complete the course in eight semesters one must take each semester
average of fifteen units of work exclusive of physical education activities.

Grade Points: In order to graduate, a student must not only earn a certa
number of units, but also attain an average of at least C grade in all units f
which he has registered in the Associated Colleges. An explanation of t
grading system will be found on page 76.

Residence: A minimum of four semesters in full-time attendance is requir
for graduation. For transfer students entering with junior standing, this mea
the four remaining semesters. For all students, except those engaged in t
M.I.T. or C.I.T. programs, both semesters of the senior year must be taken
full-time attendance.

Lower Division Requirements: All students must satisfy the requiremer
for distribution in the Lower Division as explained on page 79. These
quirements should be met in the Freshman and Sophomore years, but th
completion may be postponed to the Junior year. Postponement to the Seni
year requires the permission of the Classification Committee.

Upper Division Requirements: In the Junior and Senior years all studer
must undertake a program of concentration leading to a comprehensi
examination or its equivalent. (See page 80.)

Physical Education Activities: Physical Education Activities must be ıcluded in the registration of each student every semester, in accordance ·ith the student's classification, until a maximum of six units has been com- leted. Freshmen and Sophomores register for two activities each semester, ıd Juniors and Seniors one activity. Exemption from this requirement is ɔssible only by permission of the Classification Committee on the recom- ıendation of the College Physician and the Department of Physical Education. ransfer students who met the Physical Education requirement of the institu- ɔn from which they transferred need take only the amount required for their assification.

American History and Institutions: To be eligible for graduation all udents are required by the laws of the State of California to pass examinations American history and in American and California institutions, includ- g the provisions and principles of the United States Constitution and the inciples of California state and local government as established under the ɔnstitution of this State. While courses are helpful in preparing for the aminations, it is not possible to satisfy the requirements by the passing of y Pomona College course or courses. Examinations to satisfy these require- ents will be given semi-annually in September and in the spring on dates ıich will be announced well in advance. Each candidate will be examined ce without fee, but if he fails to pass the first time, re-examination will given only upon presentation of a receipt from the Business Office for the yment of the usual $2.00 fee for special examinations. Candidates who have led once, however, must take re-examinations at the time scheduled for e regular examinations. These examinations will be objective in character. Any student who has not satisfied these requirements before the beginning the second semester of his senior year will not be considered a candidate graduation and will not be eligible to take the comprehensive examination that semester. Reading lists for those preparing for the examinations are ainable from the departments of History and Government. Members of se departments will offer a series of public lectures each spring which will be ture interpretations of the subject, but which will not in themselves provide the factual information necessary to pass the examinations. Students failing examination are advised to take a course in that field before attempting it ain.

Foreign Languages: Although the College does not specify a knowledge of eign languages as a requirement for the degree, all students are urged to e at least one year of foreign language study. Since several departments uire a foreign language in their programs of concentration, the student uld ascertain the language requirement of the program he is planning to lertake, and if he is not already prepared to meet it, should include the dy of the required language in his Freshman and Sophomore years.

Graduation Fee: Every student expecting to graduate at the end of any en semester must file an application for graduation at the Registrar's Office later than the beginning of his final semester and must include the grad- ion fee ($10.00) with the payment of his other fees at the time of such

registration. Failure to comply with these two requirements will automatical exclude a student from graduation that semester.

ACADEMIC REGULATIONS AND PROCEDURE

Grades and Grade Points: Each Candidate for graduation must earn a average of at least C (i.e. twice as many grade points as units) in courses f which he has registered in the Associated Colleges.

A (excellent) = 4 grade points per unit.
B (very good) = 3 grade points per unit.
C (average) = 2 grade points per unit.
D (passing) = 1 grade point per unit.
F (failure) = 0 grade points per unit. May be ma up to a D.
FF (failure) = 0 grade points per unit. May not made up except by repeating course.
I (incomplete due to illness)
W (withdrawn with permission)

All F, FF, and I grades reported by instructors must be accompanied a specific statement in writing of the reason for the grade. In case of an or I grade, the statement must include a detailed explanation of how t grade can be made up. A copy of this statement is given to the studer All conditions for removing I and F grades must be met within seven wee of the beginning of classes of the following semester, except that, in certa year courses, the deficiency in the first semester may be removed by su cessful completion of the work of the second semester, if the instructor recommends. An F grade cannot be raised above a D. I and F grades n satisfactorily made up within this time limit automatically become FF.

The I mark is given where illness on the part of a student justifies t granting of additional time for the completion of work. It may be chang to whatever grade the student earns. Instructors wishing to give an I gra for a justifiable cause other than illness must first receive permission to do from the Classification Committee.

A FF grade can be made up only by repeating the course. Where the F or permanent F grade is incurred in a Physical Education activity, the sar course must be repeated when next offered. A student may not continue a year course other than Physical Education in which he has received a F the first semester. The making up of work which has received the permane F or FF grade does not expunge the grade from the record. Although cre and grade points are allowed for the repeated work all units attempted a grade points earned are counted in computing the student's average.

The mark W is used where a student has withdrawn from a course accordance with the provisions outlined under Changes in Registration.

Amount of work: The College regulates the amount of work a stude is allowed to carry. The normal registration is 15-16 units of academic wo for each of eight semesters plus Physical Education activities and/or Milita

)rill. In addition a student may elect for credit each semester not more than wo of the following: Band, Choir, Orchestra, or Play Production. The mini- ıum full-time load is 12 units of academic work. Registrations above 16 :ademic units require a written recommendation from the student's adviser nd the further approval of the Registrar. Registration below 12 units places ıe student in Special Standing.

Auditing of Courses: Students regularly enrolled in the Associated Colleges ıay, with the consent of the instructor, audit courses. Such arrangements will ot be officially recorded and will not receive credit. An auditor may not partic- ıate actively in course work and may not, therefore, request registration for edit after the normal deadline for requesting course registration. Persons ot regularly enrolled in the Colleges may audit courses provided they obtain ıe instructor's permission and pay the regular auditor's fee of $10 per course.

Quality of work: A student is expected to secure each semester twice as any grade points as the total number of units of registration.

By the middle of each semester instructors are requested to report all students)ing unsatisfactory work for the period preceding the date of the report. In ldition to these general reports, instructors are encouraged to make reports any time concerning individual students who are not in good scholastic anding. Advisers and deans receive such reports and take such steps as are lvisable in each individual case.

At the end of each semester a complete report is made on every student. his report becomes a part of the student's record and indicates his standing the courses for which he has been registered.

The college may at any time require the withdrawal of a student if the iality of his work seems to warrant such action. Decision in every such se is reached by the joint action of the Student Affairs and Classification)mmittees in consultation with the student's adviser.

Completion of work: To be counted as work completed in the course, papers, reports, drawings, and other assigned exercises must be turned in instructors before the final examination.

Academic Record: All collegiate work for which a student registers con- tutes a part of the academic record, whether or not the work is completed. udents failing to provide the Registrar's Office with transcripts of registra- ns in other institutions may be subject to dismissal from the College.

Reading Period: A reading period of three weeks is provided at the end each semester for certain upper division courses. Participation is at the tion of the instructor. An instructor who desires to have a class participate the program should announce that fact to the class at the beginning of the nester. In such classes all regular course assignments, term papers, etc., are e prior to the beginning of the reading period, unless specifically assigned be done during that time.

Dismissal from Courses: A student who proves unable or unwilling to ry a course satisfactorily may be dropped from it by the Classification mmittee upon the recommendation of the instructor.

Class Attendance: Students are expected to maintain regular attendanc at all class appointments in the courses for which they are registered.

While there is no general college requirement, each instructor has the righ to establish such specific regulations regarding attendance as may seem be suited to his particular department.

Final Examinations: Seniors may not take final examinations in courses i the semester in which they take their comprehensive examinations. Fina examinations are required of all other students in all subjects save as excep tions are made by action of the Courses of Study Committee.

The schedule of final examinations is prepared by the Courses of Stud Committee. Instructors may not change dates of examinations without th consent of this Committee. Examinations for individual students may not b given at other than scheduled times except by consent of the Classificatio Committee and on the presentation to the instructor of a Business Offic receipt for a fee of two dollars ($2.00), unless this fee is remitted by th Committee.

Field Trips: Field trips are looked upon by the faculty as a legitimate par of certain courses. Permission for such trips is secured by instructors from th Courses of Study Committee at the opening of each semester. Instructor certify to the Registrar's Office the names of students participating in thes trips.

Pre-Registration and Registration: On appointed days shortly after th publication of the catalog in the spring and before Christmas vacation i December all students must pre-register by filling out schedules listing thei choice of subjects for the following semester. The fee for any change in thi pre-registration is three dollars.

New students pre-register and register on announced days at the openin of each semester.

Registration is completed for all students by the payment of tuition o appointed days at the beginning of each semester.

The fee for late pre-registration or late registration is $2.00 for the firs or second day following the appointed days, and $1.00 additional for ever day thereafter to a maximum of $10.00.

Students are not allowed credit for courses for which they are not formall registered.

Students may not enter courses later than two weeks from the beginning c class work.

Changes in Registration: Upon application to the Registrar's Office an with the approval of his advisers, a student wishing to modify his schedul of studies by addition or substitution of courses may do so within two weeks c the beginning of class work. All students except those registering for the firs time are required to pay a change fee of three dollars. No change of registratio is official unless the student has complied with the procedure established by th Registrar's Office.

Students withdrawing from laboratory fee courses within three weeks c

ıe beginning of classes will be refunded the full fee ⁄ill be refunded to those withdrawing in the following three-week period ut after six weeks from the beginning of classes no laboratory fees will be efunded.

The last date for withdrawing from a course without penalty is one week ter the date of the mid-semester low grade report. Thereafter, the dropping f a course by a student shall entail for him a grade of FF for the course, ccept as circumstances may, in the judgment of the instructor and the Classi- cation Committee, warrant a grade of W.

Matriculation: Matriculation implies the proven ability to carry college ork. To this end the standing of all students is provisional until after they ıve been in full time attendance for one semester. At that time those new udents are matriculated who have shown themselves in accord with the spirit the College, have carried a minimum of 12 academic units, and have made least an over-all average of C in all work attempted during their term of sidence. For those matriculating at the end of their first semester a public atriculation ceremony is held early in the second semester.

Students failing to matriculate at the end of their first semester may be atriculated at the end of any subsequent semester in which they have carried minimum of 12 academic units provided they have met all the above require- ents including an over-all average of C on all work attempted during their hole period of attendance.

Students are not candidates for a degree until they have matriculated.

The Faculty Regulation on English: In the evaluation of all academic ercises the quality of English used by the student will be weighed together th the soundness and completeness of his thinking. Faculty members are pected to report to the Faculty Committee on English all students whose ıe of English is unsatisfactory. On the recommendation of this Committee, student whose English is persistently unacceptable may be required to thdraw from the College at the end of any semester by the joint action of te Student Affairs and Classification Committees. Habitual and flagrant sspelling is considered a deficiency in English to which this regulation plies.

REQUIREMENTS FOR DISTRIBUTION IN THE LOWER DIVISION

All students must satisfy, by the end of the Junior year, the following ıuirements for distribution in the Lower Division. Distribution require- nts shall be met only by the Pomona College courses listed below unless ception is granted by the Classification Committee. Students from other titutions who plan to transfer to advanced standing in Pomona College are vised to scrutinize their programs carefully to be sure they have taken the ıuired work and to consult the Registrar concerning any questions as to the eptance of credit.

English 1a, 1b. An Introductory Course. A few students who make excep- nally high scores on the College Board Examination and also on an exercise

in composition set by the Department of English are exempted from *Englis* 1a *and are enrolled in English* 1b *in the First Semester.* If they wish, suc students may take the *year* course, which is a study of composition and lite ature on the college level. Remedial work in English below the college lev is under the supervision of a special faculty committee.

2. *A year course in a biological science.* Biology 1, Botany 12 and 1 Zoology 1 or 11.

3. *A year course in a physical science:* Astronomy 1 or 61; Chemistry 1; G ology 1 and 2; Physics 1; Physics 51.

Note: A student may satisfy the requirement in either Group 2 or Group but not in both, by offering for admission a recommended unit of high scho work in one of the sciences listed in the Group from which he wishes be excused.

4 and 5. *Two year-courses in the social sciences:* History 1a-1b; Economi 51 and 52; Government 51 and 52; Sociology 51 and 52; Education 5 Economics 51 and Government 52. Normally History 1a-1b will be take as one of the two courses.

Note: Sociology 51 and 52 constitute the integrated year course in sociolog but 51 and any *two* higher-numbered courses also meet the requirement. The need not all be taken in the same year.

6. *A year course in literature, art or music:* This requirement may met by a course primarily concerned with the appreciation of literatu rather than with the mastery of language, or by a year course in art music. Acceptable courses are:

a. English 50 or six units from English 50a, 56, 57, and 58.

b. In the classics and in modern European languages, any course, the original or translation, numbered above 50, except courses composition and conversation.

c. Any year course of not less than four units in art or music.

7. *A year course in philosophy or religion:* Philosophy 57, 110 and 1 Religion 1, 2; 65.

REQUIREMENTS FOR CONCENTRATION IN THE UPPER DIVISION

All students must make a tentative choice of a major field of concentrati during the Freshman year and a definite choice by the end of the Sophomo year. During their first two years students will be expected to complete t basic courses required by the department or departments of their choice.

Each student's program of concentration shall culminate in a final writt comprehensive examination over the entire field in which he has concentrat The student must pass this examination in order to qualify for graduation. a few departments research projects take the place of the written examinati

No student is permitted to take both the Comprehensive Examination and nal examinations in courses the same semester.

The Comprehensive Examinations must be taken at the officially scheduled mes. Students who have failed Comprehensive Examinations may request ermission to retake them at the opening of the college year and at the end f each semester. Such applications must be in the hands of the department ncerned by September 1, December 1, or April 1. A fee of $10 will be arged for a re-examination which is taken at other than the times set for regular comprehensive examination. All students who intend to take the gularly scheduled comprehensive examinations must file an application ith the Registrar not later than the beginning of the semester in which the amination is to be taken.

In the event that an undergraduate does not take all or part of his Compre-nsive Examination due to illness, he will receive an "I" for the part or parts the examination not taken. It is the responsibility of the undergraduate who es not take a Comprehensive Examination due to illness to inform the partment giving the examination at the earliest possible time.

A program of concentration leading to the comprehensive examination must clude not less than twenty-four hours and not more than thirty-six hours work in courses numbered over 100 in the chosen field. These limits apply that part of the student's program on which the comprehensive examina-n will be set.

For the entire four years of college, not more than a total of fifty-two units any one department (in Music not more than a total of sixty units) may counted toward graduation.

A few concentrations have been arranged so as to permit a combination of urses in various departments. The requirements for concentration in any partment will be found before the list of courses offered by the department.

HONORS STUDY

nors study consists of a carefully planned program of tutorial work together h related seminars and courses carried out under the direction of a faculty mber. Pomona College has offered this type of instruction since 1924 for student who shows the capacity and inclination for more than average llectual achievement and self-direction in his study. An Honors program mits freedom from a considerable part of academic routine during the ior and Senior years and thus makes it possible for an individual to gain ider and more profound knowledge of a chosen field and its ramifications n the usual curriculum permits.

onduct of Honors Programs: General administration of Honors work is ed in the Courses of Study Committee, which, through its Sub-committee Honors Study, reviews individual programs and administers the faculty lations regarding them.

rdinarily a student enters Honors study at the beginning of his Junior , and in no case may he be admitted after the beginning of his Senior . A minimum grade-point average of 3.0 is normally required for enroll-

ment in Honors study. In addition, the recommendation of the departmen in which the student will work is necessary.

The number of hours allotted to Honors study must be not less than 12 no more than 18. Within these limits a student may be excused from forma classes. The method of Honors study varies; it may be carried on by tutoria conferences or in seminar or laboratory projects. The general requiremen which limits to a total of 52 units the work which may be taken in any on department applies also to Honors programs.

Application forms for admission to Honors study may be obtained at th Registrar's office. They should be filled out in close consultation with th faculty member with whom the program is to be carried on.

Evidence of the success of the student in his Honors work is measured b the quality of the thesis or project with which such a study normally culminate and by written and oral examinations. All or part of the Senior comprehensiv examination in a field of study usually forms the written Honors examinatio in that field. The oral examination will pursue further topics considered in th written examination as well as subjects related to the thesis or project carrie out by the student.

A student's performance in his Honors study and examinations is judge by his department, the board which conducts his oral examination, and reviewed by the Sub-Committee on Honors Study. A student who has mai tained in all his work a grade-point average of 3.0 and who has met succes fully all the requirements of his program of Honors study will be graduate with a notation of that accomplishment. He will also be eligible for suc general commencement honors as may be indicated by his whole record.

A student who fails to meet the standard of his Honors program as a whol but who completes work worthy of credit in the hours allocated to Honor will receive credit and grades for the latter but will not receive notation of a Honors program completed upon his graduation.

Courses of Instruction

ELEMENTARY courses numbered below 50 are designed primarily for the freshman year. Courses numbered 50 to 99 are either those which follow the lower course or are the more advanced beginning courses. Courses numbered over 100 are for juniors and seniors and may not be entered by students without previous work in the same field, except by written permission of instructors. Courses numbered NC carry no academic credit. In some departments a definite sequence of courses must be followed.

The hyphen in a course number designates that credit will not be allowed for only one semester of the year course. When course numbers are connected by a comma, credit is given for a single semester, but unless a passing grade has been received for the first semester of the course entrance to the second semester is by permission of the instructor.

Any course may be withdrawn if the enrollment is less than five.

Except by special permission, credit for only one unit of work in a department is not allowed.

COURSES IN THE ASSOCIATED COLLEGES

Following the departmental offerings of Pomona College are listed certain courses in Scripps College and Claremont Men's College open to Pomona sophomores, juniors and seniors under approved conditions. Normally only those courses so listed are open to Pomona College students. It should be noted that most of the Scripps College courses are year courses and consequently credit cannot be allowed for only one semester. To enroll in courses other than those listed, students must first obtain a permission slip from the chairman of the corresponding department at Pomona. Each regular student in residence in Pomona College shall, however, select not less than half of his registration each academic year from courses in Pomona College. Normally freshmen will take their entire programs of study in the college of their residence. In a few departments involving the use of physical equipment and laboratory space, such as art and the sciences, it is necessary to impose limits on the exchange privileges.

Certain graduate courses in the Claremont Graduate School are also open to Pomona seniors who are concentrating in the fields

in which the courses are offered. Short titles for these courses are given following departmental offerings. For fuller description consult the catalog of the Claremont Graduate School. Permission to enroll in graduate courses must be secured from the chairman of the department in which the senior is concentrating and from the instructor giving the course.

Where a course in Scripps, Claremont Men's College, or the Graduate School duplicates the material of a Pomona course, credit will not be given for both.

DIVISIONS

The courses in the Pomona College curriculum are arranged in three divisions as follows:

DIVISION I [*Humanities*] Art, Chinese, Classics, Comparative Literature, English, German, Music, Philosophy, Romance Languages, Russian, Speech and Dramatics.

DIVISION II [*Natural Sciences*] Astronomy, Biology, Botany, Chemistry, Geology, Mathematics, Military Science, Physics, Psychology, Zoology.

DIVISION III [*Social Sciences*] Economics, Education, Geography, Government, History, Oriental Affairs, Physical Education, Religion, Sociology.

Art

Two types of concentration are open to students of art within the department, the History of Art and the Practice of Art. Specialization may be determined in the second year, but correlation between the history and practice of art is maintained.

Not more than 16 hours of applied art courses numbered under 100 are accepted toward graduation.

CONCENTRATION: HISTORY OF ART

Lower Division Requirements: History 1, Art 3, 9, 51.

Upper Division Requirements: 30 units of upper division art courses including 18 units of art history and Art 178a and b.

CONCENTRATION: PRACTICE OF ART

Lower Division Requirements: Art 3, 9, 51 and either 61 or 65.

Upper Division Requirements: 30 units of upper division art courses. In the practice of art, 16 units including Art 120 and 6 units of Art 185 or 10 units of Art 162. In the history of art 12 units.

HISTORY OF ART

51a-51b. SURVEY OF THE HISTORY OF ART. *Mr. Selz.* First semester: from the prehistoric period through the Gothic era; second semester: from the Renaissance to the contemporary scene. This course or its equivalent is normally a prerequisite for advanced courses in the history of art. 3 units. Two sections. *MWF, 10, 2:15.*

107a, 107b. ANCIENT ART AND ARCHAEOLOGY. *Mr. Carroll.* First semester: the art of Egypt, the Near East, Crete and Greece through the 5th century. Second semester: Hellenistic Greece and the Roman Empire. 3 units. (Omitted 1955-56.)

110a, 110b. MEDIEVAL ART. *Mr. Robertson.* First semester: Early Christian, Byzantine and early Romanesque art. Second semester: later Romanesque and Gothic art. 3 units. *TThS, 9.*

113a, 113b. MODERN ART. *Mr. Selz.* First semester: from the French Revolution through Impressionism. Second semester: from Impressionism to the present. 3 units. *MWF, 8.*

117a, 117b. ART OF THE FAR EAST. *Staff.* The art of India from its beginnings to the end of Buddhism. Indian art in Southeast Asia. Early art of China. Second semester will cover the Buddhist and secular art of later China, the art of Japan and the later art of India. 3 units. (Omitted 1955-56.)

118a, 118b. SOUTHERN RENAISSANCE AND BAROQUE ART. *Mrs. Fulton.* First semester: the Renaissance in Italy and Spain. Second semester: Mannerism and Baroque art in Italy and Spain. 3 units. *MWF, 11.*

119a, 119b. NORTHERN RENAISSANCE AND BAROQUE ART. *Mrs. Fulton.* First semester: Netherlands, German and French art through the 16th century. Second semester: French, Dutch and Flemish art through the 18th century. 3 units. *MWF, 9.*

121a, 121b. AMERICAN ART. *Mr. Robertson.* First semester: the art of the American Indian, stressing the high cultures of Mexico and the Pueblos of the Southwest. Art of the English Colonies of the Atlantic Coast and the Spanish Colonies of Mexico and the Southwest. Second semester: the art of the United States and Mexico to the present. 3 units. *TThS, 10.*

178a, 178b. PROBLEMS IN THE HISTORY OF ART. *Mr. Robertson.* The study of a particular artist, period, school or movement in art or art theory. Offered primarily for majors. 3 units. Arranged.

PRACTICE OF ART

2-3b. DESIGN. *Mr. Grant.* A basic course investigating the fundamentals of design as applied to painting and drawing. 2 units. Two sections. *MW, 1:15-4:05; MW, 3:15-4:05* and 1 hour arranged.

9a-9b. Sculpture. *Mr. Lawler.* A basic course in sculpture, comprising a study of the nature of form. Consideration of sculptural techniques and materials. 2 units. Two sections. *TTh, 1:15-3:05; TTh, 3:15-5:05.*

61a, 61b. Drawing. *Mr. Grant.* An introductory course investigating various drawing problems and methods as applied to the human figure, still life and landscape. Completion of 3a-b or permission of the instructor is required. 2 units. *TTh, 9-11.*

65a, 65b. Advance Sculpture. *Mr. Lawler.* Continuing study of the nature of form. 2 units. Two sections. *TTh, 1:15-3:05; TTh, 3:15-5:05.*

105a, 105b. Advanced Drawing. *Mr. Grant.* 2 units. *TTh, 9-11.*

120a, 120b. Painting. *Mr. Hammersley.* A course investigating various painting problems and methods as applied to still life, the human figure and landscape. The painting course is essentially a continuation of the drawing class, with the addition of an emphasis on the use of paint. 2 units. *TTh 1:15-3:05.*

162a, 162b. Creative Sculpture. *Mr. Lawler.* A course open only to advanced students of ability for the development of original problems in various media. May be repeated for credit. 1 to 3 units. Two sections. *TTh, 1:15-3:05; TTh, 3:15-5:05.*

185a, 185b. Problems in Painting and the Graphic Arts. *Mr. Grant* or *Mr. Hammersley.* Opportunity is given for the pursuit of individual projects to suit the interest and ability of the student. May be taken under both instructors concurrently, and can be repeated for credit. 1-3 units. Arranged.

AVAILABLE AT SCRIPPS COLLEGE

II-121. Advanced Painting. *Staff.* Year course. Prerequisite II-2 or equivalent *MWF, 1:15-4:05.*

II-122. Weaving. *Mrs. Stewart.* Year course. Prerequisite II-2 or equivalent *MWF, 1:15-4:05.*

II-123. Ceramics. *Mr. Petterson.* Year course. May be repeated for credit Prerequisite II-2 or equivalent. *TTh, 1:15-4:05.*

II-130. Sculpture. *Mr. Stewart.* Year course. May be repeated for credit Prerequisite II-2 or equivalent and permission of instructor. *MWF, 1:15-4:05*

II-141. Principles of Architecture and Design. *Mr. Criley.* Prerequisite II-2 or equivalent. By permission of instructor. *TTh, 1:15-4:05* and arranged hour.

II-143. Contemporary Art. *Staff. MWF, 8.*

I-170. Printing. *Mr. Foster.* One or two year course. *TTh, 1:15-4:05.* Registration by permission of the instructor.

Astronomy

A minimum program for concentration in Astronomy, with a minor in Mathematics and Physics, must include Astronomy 61a, b, 156a, b, Physics 51a, b, 113a, b, 153, 155 and Mathematics 65a, b and 151 a, b. For majors in Astronomy intending to proceed to graduate study, the following courses are also required: Astronomy 180a, b, Physics 141a, b and Mathematics 152a, b. A reading knowledge of French and German is strongly recommended.

1a, 1b. Introduction to Elementary Astronomy. *Mr. Routly.* A descriptive account of the solar system, constellations and galaxy. Periodic observation of interesting celestial objects with equipment at the Observatory. Field trips to the astronomical centers of the region. No prerequisites. 3 units. *TThS, 9.*

51a, 61b. General Astronomy. *Mr. Routly.* A more thorough version of Astronomy 1. Additional topics include astronomical instruments, celestial mechanics, navigation, stellar types, spectral classification and extra-galactic nebulae. Laboratory periods are compulsory and form an integral part of the course. Prerequisite: Mathematics 1a, b taken previously or concurrently. Laboratory fee $4.00 per semester. 4 units. Class *MWF, 9.* Laboratory to be arranged.

156a, 156b. Astrophysics. *Mr. Routly.* The application of physical techniques to astronomical problems of current research interest. The elements of atomic and molecular spectroscopy, stellar atmospheres, stellar interiors and interstellar space. Prerequisites: Mathematics 151a, b taken previously or concurrently and Physics 51a, b. No previous training in Astronomy required. Course intended for majors in Astronomy and other qualified science students. 3 units. *MWF, 11.*

180a, 180b. Selected Topics in Astronomy. *Mr. Routly.* Intended for majors in Astronomy proceeding to graduate study. Contents will consist of topics not covered in Astrophysics 156a, b. Some suitable investigation, equivalent to a senior thesis, will be conducted by each student during the year. Prerequisite: Astrophysics 156a, b, taken previously or concurrently. 3 units. Classes to be arranged.

Biology

Requirements for concentration: Biology 112; Botany 12, 14, 15, 75, and at least nine units chosen from 103, 105a, 107 or 117, or 123a; Zoology 1, 37 or 137, and nine units chosen from 106, 107, 117, 130, 150, 157. (Biology 105 may be substituted for any upper division course in the above list except Biology 112); additional upper division courses in botany, zoology, or biology to bring the total to 30 units or more. Related fields: high school or college Chemistry; Physics 1 or 51, or Geology 1a, 1b and 2a, 2b.

1a. General Biology. *Mr. Phillips.* A general course designed for those who do not intend to take further work in biology. Students who have had high school courses in biology, botany, or zoology should take Botany 12 and 15 or Zoology 1 or 11 instead of Biology 1. Fee $6.00. 3 units. First semester. Class *MWF, 10* or *11; M* or *W, 1:15-2:35* or *2:45-4:05* must be kept open for laboratory.

1b. General Biology. *Mr. McCarthy, Mr. Ryerson.* A continuation of Biology 1a with illustrations drawn mainly from animal biology and human biology. Lectures, demonstrations and laboratory. Laboratory fee $6.00. 3 units. Second semester. Two sections: Section A, lectures *MWF, 10,* laboratory *T* one hour, *1:15, 2:15* or *3:15;* Section B, lectures *MWF, 11,* laboratory *M,* one hour, *1:15, 2:15,* or *3:15.*

105. Bacteriology. *Mr. Ryerson, Mr. Amrein.* General study of bacteria including their importance in disease and industry. Laboratory exercises on methods of culture and examination. Prerequisite: one year of biological work. Laboratory fee $8.00. 4 units. First semester. Lectures *MWF, 9.* Laboratory *MW, 2:15-4:05.*

112. Genetics. *Mr. McCarthy.* This course considers modern developments in the study of heredity and evolution and their general application to plant and animal breeding and to eugenics and race questions. Prerequisite: one year of biological work. 3 units. Second semester. *MWF, 11.*

159. History of Biology. *Mr. Amrein.* A historical consideration of the development of biological theories and concepts and their influences upon society. 3 units. First semester. *MWF, 10.*

Botany

Botany Concentration: lower division courses, Botany 12, 14, 15, 75 (at least 3 times); Zoology 1 (or Biology 1b and a summer session at the Marine Laboratory). upper division courses, Botany 103, 105, 107, 117, 123a, and 123b or 158 and additional courses in botany (courses 103-175), selected to make a total of 24 to 36 units of upper division work. In some instances Botany 175 may be substituted for 105b. related fields, Biology 112; high school or college chemistry (students emphasizing plant physiology should have Chemistry 1, 59, and 106, and 110 is recommended); high school or college physics (Physics 1 or 51) or Geology 1. Prospective candidates for graduate work should consult the department concerning foreign language requirements for advanced degrees. English 63 is recommended.

Seniors with concentration programs in botany or in biology emphasizing botany are required either (1) to present a satisfactory paper and to pass an oral examination on the field of the paper, or (2) to pass the senior comprehensive examination.

Plant Collection: All students concentrating in botany should consult Mr. enson concerning the plant collection built up in various courses. This is a raduation requirement, and the collection must be submitted for inspection : the time of the senior comprehensive examination. Credit for individual ork on the collection may be had by registration in Botany 75. *This course iould be taken in the last semester before graduation* in order to bring the llection into good order before it is submitted for the final inspection.

Biology Concentration: See Biology listing.

Botany-Chemistry Concentration: LOWER DIVISION COURSES, Botany 12, 14, 5, 75 (at least twice); Chemistry 1, 59; Physics 51. UPPER DIVISION COURSES, otany 103, 105a, 107, 117, 123, and 158; Chemistry 106, 110a, 111a, 115. ecommended electives from the following list: Biology 112; Botany 105b, 7, 175; Chemistry 158, 184, 187; Zoology 1, 37 or 137. Botany 12 and 15 id, if possible, 14, and Chemistry 1 should be taken in the freshman year, id the full program should be planned as early as possible.

. GENERAL BOTANY. *Mr. Benson* and *Mr. Phillips.* An elementary study biological principles with emphasis upon the microscopic structure and e physiology of flowering plants, evolution, and heredity. Laboratory fee .50. Ordinarily 3 units, but for students who have had college biology or ology, sometimes by permission 2 units. First semester *MWF, 11,* must be pt open for class. Laboratory Section A, *T, 1:15-3:05;* Section B (if there is fficient demand) to be arranged. Field trips arranged.

. FIELD STUDIES OF EVOLUTION. *Mr. Phillips* and *Mr. Benson.* Differentia- n and isolation of evolving populations of plants, hybrid swarms, and flow genes from one species to another; physiological and ecological factors ecting evolution. Prerequisite: Biology 1, Botany 12, or Zoology 1. Labora- y and field trip fee $6.50. 2 units. Second semester. Class *M, 2:15-3:05;* field os *M, 3:15-5:05* and some longer trips. Given in alternate years. (Omitted in 55-56.)

FIELD CLASSIFICATION OF PLANTS. *Mr. Benson.* An elementary discussion d field course in classification of primarily the flowering plants but also of ns and cone-bearing trees. Students concentrating in botany or biology with phasis on botany must, others may, register for at least 1 unit of Botany 75 currently. Laboratory and field trip fee $8.75. 3 units. Second semester. ss *MF, 11.* Field Section A, *T, 1:15-3:05.* Section B (if sufficient demand) to arranged. There are some additional longer trips.

INDIVIDUAL PLANT CLASSIFICATION. *Mr. Benson.* Classification of vascular ats (ferns, cone-bearing trees, and flowering plants). The student collection specimens is used for developing a comparative method of plant identi- tion. May be taken as an Elective, but required concurrently with Botany for those concentrating in botany or in biology with emphasis on botany. y be repeated for credit. Permission of instructor required. Laboratory fee 0 per unit. 1 or 2 units. First semester, ordinarily *M, 1:15-2:05* and

arranged. Second semester, arranged, but ordinarily including either *M, 1:1 2:05* or (especially when taken the first time) *W, 11.*

81. Elementary Botanical Problems. *Staff.* Individual laboratory work such fields as (a) structure and classification of algae, (b) culture, speci physiology, structure, or development of plants, or (c) ecology. Each semeste 1 or 2 units, but not more than 1 unit for the first enrollment. May be repeate for credit. Permission of the instructor required. Laboratory fee $2.00 per uni Arranged.

103. Plant Ecology (Autecology). *Mr. Phillips.* The effect of environme upon plants of forests, deserts, chaparral, grassland, and woodland; ecologic adaptation. Prerequisite: Botany 12 or permission of the instructor. Laborato fee $8.00 and breakage deposit $5.00. 3 units. First semester. Class *T, 2:1 4:05;* laboratory and field trips, *F, 1:15-4:05,* and occasional longer trips. Give in alternate years. (Omitted in 1955-56.)

105a, 105b. Flowering Plants (Classification). *Mr. Benson.* Evolutiona series of orders and families; history, principles, and methods of classificatic of the higher taxa; geographical distribution correlated with geological histor Prerequisite: Botany 15. Laboratory and field trip fee $8.75 each semeste 3 units. Class and laboratory, *TTh, 9:00-10:50.* Field trips arranged. Given alternate years. (Omitted in 1955-56.)

107. Non-Vascular Plants. (Morphology.) *Mr. Phillips.* Structure, develo ment, evolutionary series, and relationships of classes and orders of alga fungi, mosses, and liverworts. Prerequisite: Botany 12 or equivalent. Labor tory fee $8.00. 3 units. Second semester. Class *MW, 10;* laboratory and fie trips *W, 1:15-4:05.* Given in alternate years. (Omitted in 1955-56.)

117. Vascular Plants. (Morphology.) *Mr. Benson.* Structure, developmer evolutionary series, and relationships of the classes and orders of pteridophyt (ferns, etc.) and gymnosperms (cone-bearing trees); fundamental life histo of flowering plants. Prerequisite: Botany 12 or equivalent. Laboratory f $8.00. 3 units. Second semester. Class *MW, 9;* laboratory and field trips *M, 2:1 5:05.* Given in alternate years.

123a, 123b. Plant Physiology. *Mr. Phillips.* Physiological processes and pri ciples, including photosynthesis, germination, dormancy, water relatior mineral nutrition, respiration, growth and growth hormones, flowering ar fruiting. Prerequisite: Botany 12 and high school chemistry, or permission the instructor. Laboratory fee $10.00 each semester and breakage deposit $5.0 3 units. Class *TTh, 10;* laboratory *Th, 1:15-4:05.* Given in alternate years.

158. Advanced Plant Ecology (Synecology). *Mr. Phillips.* Analysis plant communities; factors affecting plant geography; major plant commur ties primarily of the United States. Prerequisites: Botany 12, 15, 103, ar completion of or concurrent registration in Botany 105; or permission of t

ıstructor. Laboratory fee $8.00. 3 units. Second semester. Class *T, 2:15-4:05;* .boratory and field trips, *F, 1:15-4:05,* and occasional longer trips. Given in .ternate years. (Omitted in 1955-56.)

57. Plant Microtechnique. *Mr. Phillips.* Preparation of microscope slides ı represent structure or development of plants or for cytological data. Partly ıdividual work. Prerequisite: Botany 12, 107 or 117; or permission of the ıstructor. Laboratory fee $7.00 and the cost of special materials for the stu- ent's slide collection. Second semester. 3 units. Class and laboratory, arranged ı *T* between *1:15* and *5:05.* Given in alternate years.

75. Evolution and Classification of Species. *Mr. Benson.* Field studies on .e evolution and definition of species; principles of organizing plant groups to genera, species, and varieties. Students enrolled for three units will study so problems of choice of scientific names, description, and methods of prepa- ıtion and documentation of technical papers. Prerequisite: Botany 15, or :rmission of the instructor. Laboratory and field trip fee $9.00. First semester. or 3 units. Class *MW, 9;* field trip time to be arranged at an advance class eeting during preregistration. Given in alternate years.

ıı. Advanced Botanical Problems. *Staff.* Individual work in any field of ıtany. The student may anticipate preparation of a thesis for the Master's egree by beginning a problem or continuing one begun in upper division urses. Permission of the instructor required. Laboratory fee $2.00 per unit. to 3 units. Each semester. May be repeated for credit. Arranged.

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Graduate work in botany is offered through the Claremont Graduate School the joint staffs of Pomona College and the Rancho Santa Ana Botanic ıarden (now located in Claremont). The facilities for research in plant classi- ıation are particularly good because the Pomona College Herbarium includes out 315,000 specimens and the combined herbaria 400,000. The libraries of lth institutions have been developed primarily for work in this field, and the ıarden has unusual facilities for experimental study of species.

GRADUATE COURSES OPEN TO QUALIFIED UNDERGRADUATES

ɔte: The prerequisites listed below apply to Pomona College students. Writ- ti permission of the Pomona College department is required also.

:7. Plant Anatomy. *Mr. Munz.* Internal structure of higher plants. Pre- ıquisite: 117. 3 units. Second semester. One 2-hour class period and one boratory. Arranged.

:ɔ. Cytology. *Mr. Lenz.* Structure and function of the plant cell. Prerequi- s:: Biology 112. 3 units. First semester. Arranged. (Omitted in 1955-56.)

27. Morphology and Classification of Algae. *Mr. Benjamin.* A general s·vey of the algae. Prerequisite: 107. 3 units. First semester. Arranged. (ᵒmitted in 1955-56.)

220a, 220b. Evolution. *Mr. Grant.* Variation, selection, drift, isolatin mechanisms, hybridization, polyploidy, evolutionary rates, evolutionary trend Prerequisite: Biology 112, Botany 14, 175. 4 units each semester. Arranged (Omitted in 1955-56.)

225. Phylogeny of Angiosperms. *Mr. Munz.* Evolution of and relationship in flowering plants. Prerequisite: 105a and concurrent registration for 105b 3 units. Second semester, if there is sufficient demand. Arranged.

227a, 227b. Morphology and Classification of Fungi. *Mr. Benjamin.* general course in mycology. Prerequisite: 107. 4 units each semester. Arranged

245. Plant Geography. *Mr. Munz.* The vegetation of the earth with referenc to geological history, present distribution, and evolution. Prerequisite: 105 and concurrent registration for 105b. 2 or 3 units. Second semester. Arranged

247. Morphology and Classification of Vascular Plants Exclusive o Angiosperms. *Mr. Munz.* Research literature, general papers, and books; non-laboratory course. Prerequisite: 117. 3 units. First semester. Arranged (Omitted in 1955-56.)

Chemistry

Concentration Requirements: Chemistry 1, 59, 106, 107, 110, 111, 112, 158, 159 Physics 51; Mathematics 1, 65.

Pre-professional Program: Students who plan professional work in Chemistr should follow the suggested program below. This program has been approve by the American Chemical Society Committee for Professional Training o Chemists. The schedule is intended as a guide only for aid in planning th program, and individual deviations may be made as needed.

Freshman Year: Chemistry 1 or 59, 106; Mathematics 1; English 1; German 1 Elective.

Sophomore Year: Chemistry 59-106, or 110, 111; Mathematics 65; Physics 51 German 53; Elective.

Junior Year: Chemistry 107, 110, 111, 112, 181a *or* 107, 158, 159, 181a Electives.

Senior Year: Chemistry 158, 159, 181b, 184, 185, 187 *or* 112, 181b, 184, 185 187; Electives.

Zoology-Chemistry Concentration. See Zoology.

Fees: A fee is required for each laboratory course, to cover the cost of chemi cals. In addition a locker deposit must be made to cover breakage and loss o equipment. The unused balance of the deposit is returned at the end of th year.

a, 1b. Introductory Chemistry. *Mr. Smith* and *Mr. Allen.* Beginning ɔurse to acquaint the student with basic principles of chemistry and reactions f the more common elements. Fee $6.00 each semester. Deposit $5.00 for the ear. 4 units. Lectures, *MWF, 9;* laboratory *TTh* or *F, 1:15-4:05.*

Second Year Chemistry. Exceptionally well prepared students may, with the consent of instructor, omit Chemistry 1 and start with 59. The courses in qualitative and quantitative analysis, Chemistry 59, 106, are coordinated to give an advanced review of chemical reactions and theories along with the study of analytical methods.

9. Qualitative Analysis. *Mr. Mooi.* Separation and identification of the ɔmmon inorganic ions by semimicro techniques. The course is offered for or 4 units. The 4 unit course contains additional lectures on the chemistry f the elements and will be taken by students who have not taken Chemistry 1 r its equivalent. The 3 unit course will be taken by those who have had hemistry 1 or its equivalent. Prerequisite: Chemistry 1 or consent of in-ructor. Fee $6.00, deposit $5.00. 3 or 4 units. First semester. Lecture *TTh, 10;* ıboratory *M, 2:15-5:05,* and *W, 1:15-4:05,* or *TTh, 1:15-4:05.*

ɔ6. Beginning Quantitative Analysis. *Mr. Mooi.* An introduction to volu-ıetric and gravimetric analytical procedures. The course is offered for 3 or 4 nits. The 4 unit course contains additional lectures on selected topics of ıorganic chemistry and will be taken by students who have not taken hemistry 1 or its equivalent. The 3 unit course will be taken by those who ave had Chemistry 1 or its equivalent. Prerequisite: Chemistry 59. Fee $8.00, eposit $10.00. 3 or 4 units. Second semester. Lectures, *TTh, 10;* laboratory, *f, 2:15-5:05,* and *W, 1:15-4:05,* or *TTh, 1:15-4:05.*

ɔ7. Advanced Quantitative Analysis. *Mr. Smith.* An introduction to odern instrumental analysis. Prerequisite: Chemistry 106 or equivalent. Fee 3.00, deposit $10.00. 3 units. First semester. Laboratory *M, 2:15-5:05* and *TW, 15-4:05.*

oa, 110b. Elementary Organic Chemistry. *Mr. Hansch.* The first semester voted to the study of aliphatic compounds and the second semester to aro-atic. Prerequisite: Chemistry 1 or equivalent. 3 units. Lectures *MWF, 11.*

1a, 111b. Introduction to Organic Laboratory Methods. *Mr. Hansch.* rst semester, instruction in laboratory operations and organic preparations. cond semester, organic preparations and introduction to qualitative organic ıalysis. Fee $6.00, deposit $10.00 each semester. 1 unit. Laboratory *M, 2:15-05; F, 1:15-4:05.*

2. Organic Syntheses. *Mr. Hansch.* Advanced preparations to supplement e laboratory work of Chemistry III. Prerequisite: consent of instructor and hemistry 110, 111. (110b and 111b may be taken concurrently.) Fee $7.50, posit $5.00. 2 units. Second semester. Laboratory *Th, 1:15-4:05* and arranged riod.

115. Biochemistry. *Mr. Allen.* A first course in animal biochemistry fro the chemical viewpoint. Prerequisite: Chemistry 110a. 3 units. Second semeste Lectures *TThS, 9.*

158a, 158b. Physical Chemistry. *Mr. Smith.* Prerequisite: Chemistry 10 Physics 51, Mathematics 65. 3 units. Lectures *TThS, 10.*

159. Physical Chemistry Laboratory. *Mr. Smith.* Prerequisite: Chemist 158a, b. (158b may be taken concurrently.) Fee $10.00, deposit $10.00. 3 unit Second semester. Laboratory *M, 2:15-5:10* and *TW, 1:15-4:05.*

181a, 181b. Use of Chemical Literature. *Mr. Hansch.* Lectures and assigne problems on the methods for effective use of chemical literature. Prerequisit Chemistry 110, German 1. 1 unit. Arranged.

184. Advanced Organic Chemistry. *Mr. Hansch.* A survey of organ reaction mechanisms. Prerequisite: Chemistry 110, 158a. 3 units. Secon semester. Lectures *MWF, 10.*

185. Advanced Inorganic Chemistry. *Mr. Mooi.* A discussion of atomic ar molecular structure and such selected topics as coordination compound nuclear chemistry, and chemical statistics. Prerequisite: Chemistry 107, 11 158 (may be taken concurrently). 3 units. First semester. Lectures *MWF,*

187. Qualitative Organic Analysis. *Mr. Allen.* The use of systemat methods for the identification of organic compounds. Prerequisite: Chemist 106, 110, and reading knowledge of German. Fee $7.50, deposit $10.00. 3 unit First semester. Laboratory *W, 1:15-4:05,* plus at least two arranged period

199. Undergraduate Research. *Staff.* Seniors may take 6 units of researc in Physical, Organic or Analytical Chemistry, under direction of a sta member. The work may be taken in one semester or extended over two. thesis is required. Prerequisite, average of B in chemistry courses and consei of instructor. Fee $3.00 per unit, deposit $5.00. Each semester. Arranged.

NC 171. Glassblowing. *Mr. Mooi.* Training in the fundamental operatio involved in the construction of scientific glass apparatus. Academic cred toward graduation is not given for this course but the registrant receives recorded grade indicating the proficiency attained. Fee $7.50 plus cost of gla used. 2 units. Either semester. Laboratory arranged.

Classics

In the interest of providing a maximum offering in Classics, a coordinate program is offered by the departments of Pomona and Scripps College.

For concentration in Classical languages and literature a student is require to take at least 24 units in courses numbered over 100 in Greek and Lati languages and 12 units in modern European languages (French and Germa

preferred). A selected reading list from Greek and Latin authors must be completed by the student in class work or outside reading to the satisfaction of the department. Additional courses in ancient and medieval history, philosophy, Continental and English literature, and modern European languages are recommended.

Greek

51a-51b. Elementary Greek. *Mr. Carroll.* A study of the principles of Greek grammar for beginning students. 3 units. (Omitted in 1955-56.)

101a, 101b. Intermediate Greek. *Mr. Carroll* or *Mr. Palmer (Scripps).* For students who have had Greek 51a-51b or equivalent. A reading course in Greek with selections from Plato, Homer, Euripides and the New Testament. 3 units. Arranged. (Omitted in 1955-56; offered at Scripps.)

182a, 182b. Greek Readings and Composition. *Mr. Carroll* or *Mr. Palmer. Scripps).* A course for concentrators and those who have completed Greek 101 or equivalent. This course may be repeated for credit with the permission of the department. 3 units. Arranged. (Omitted in 1955-56; offered at Scripps.)

Latin

1a-1b. Elementary Latin. *Mr. Carroll* or *Mr. Palmer (Scripps).* Latin grammar and syntax for students with no secondary school Latin. 3 units. *MWF, 8.* (Omitted in 1955-56; offered at Scripps.)

57a, 57b. Intermediate Latin. *Mr. Carroll* or *Mr. Palmer (Scripps).* For students with one or two years of secondary school Latin, or Latin 1a-1b. Selected readings from Cicero, Virgil, and Ovid. Oral translation and discussions of grammar and syntax will be coordinated with lectures on the history of Latin Literature. 3 units. Arranged. (Omitted in 1955-56.)

117a, 117b. Roman Writers of the Republic. *Mr. Carroll* or *Mr. Palmer. Scripps).* A survey in Latin of the outstanding Roman writers in the second and first centuries B.C. Open to all students who have had three years or more of secondary school Latin or the equivalent. 3 units. Arranged. (Omitted in 1955-56.)

118a, 118b. Roman Writers of the Empire. *Mr. Carroll* or *Mr. Palmer Scripps).* A survey in Latin of the outstanding Roman writers in the first and second centuries A.D. Open to all students who have three years or more of secondary school Latin or equivalent. 3 units. Arranged. (Omitted in 1955-56; offered at Scripps.)

181a, 181b. Latin Readings and Composition. *Mr. Carroll* or *Mr. Palmer Scripps).* A course for concentrators and those who have completed Latin 117 and 118 or equivalents. This course may be repeated for credit with the permission of the department. 3 units. Arranged. (Omitted in 1955-56; offered at Scripps.)

GREEK AND ROMAN LITERATURE IN TRANSLATION

160a, 160b. CLASSICAL EPIC, DRAMA AND PROSE IN THE WESTERN HERITAGE *Mr. Carroll.* A course in general education for all students desiring orientation in the culture of the Graeco-Roman world and its legacy to modern civilization. No previous training is required in Classical languages or Ancient History. 3 units. Arranged. (Omitted in 1955-56.)

AVAILABLE AT SCRIPPS COLLEGE

I-106. GREEK AND ROMAN COMEDY AND SATIRE. *Mr. Palmer.* A course designed to cover in English translation the dramas of Aristophanes, Menander, Plautus and Terence and the literature of the outstanding Greek and Roman satirists. Year course. Arranged. (Omitted in 1955-56.)

I-107. GREEK AND ROMAN TRAGEDY. *Mr. Palmer.* A course designed to cover in English translation the dramas of Aeschylus, Sophocles, Euripides and Seneca. Year course. Arranged.

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HISTORY OF GREECE. For description see History 101.

HISTORY OF ROME. For description see History 102.

ANCIENT ART AND ARCHAEOLOGY. For description see Art 55a, 55b.

Comparative Literature

Concentration in Continental Literature. Requirements: 24 units in courses numbered over 100. Twelve of these units must be in Continental Literature (in translation), twelve in European or classic literature in the original language. Electives in English literature and Classics 160a, b are strongly recommended.

181a, 181b. READINGS IN CONTINENTAL LITERATURE IN TRANSLATION. *Mr Baumann.* A study of outstanding works of Dante, Stendhal, Flaubert, Dostoevsky, Tolstoy, Thomas Mann and others. (Open to Seniors. Others admitted only on permission of the instructor.) May be repeated for credit. 3 units. Arranged.

AVAILABLE AT SCRIPPS COLLEGE

I-152a, 152b. COMPARATIVE LITERATURE. *Mr. Merlan.* Year course. *W. 4:15-6:05.*

Economics

Prerequisites: Economics 51 and 52, or equivalent, are prerequisites for all advanced courses in economics. A grade of C or better in both courses is required for concentration in the field.

Required courses: Economics 57, 71, 103, 104, 109, 110, and other courses in economics to bring the total of upper-division courses to 24 units.

Recommended program for Pre-Business, Pre-Law, and Industrial Research nd Management students: Economics 51, 52, 57 and 71 in the sophomore ear, 103, 104, 109, 110 in the junior year, and 111, 198 or 199, and other ourses in the field of the student's special interest during the senior year to ring the total of upper division courses in economics to 24 units.

Junior transfers: Transfer students should consult with some member of the conomics staff to adjust their programs so as to achieve a satisfactory concen- ation.

Three-Year M.A. Program: Proximity and cooperation between Pomona ollege and the Claremont Graduate School make it possible for students to lan, beginning with their junior year, a three-year program enabling them to irn both the B.A. and M.A. degrees. The work for the Master's degree may e taken in economics, business & public administration, or in political conomy.

AMERICAN ECONOMIC AND POLITICAL INSTITUTIONS

omona College believes that its graduates should be familiar with the eco- nomic and political foundations of American life. To this end the Depart- ents of Economics and Government have organized a year course in merican economic and political institutions through which students who nnot take a full year in each subject may nevertheless gain some understand- g of both fields. This course combines a semester's study of economics with nother semester devoted to American Government and the formal classwork supplemented by a series of special lectures which all students are expected attend. These lectures (which are open to other students and faculty as well) e designed to present the insights of persons who have had practical experi- ce in business and government and the speakers are chosen from leaders in vernment, industry, finance, labor and law.

That part of the course pertaining to economic institutions (Economics 51) offered only during the fall term and that pertaining to politics (Govern- ent 52) only in the spring but students may begin the course at whichever ne best suits their schedules. The combined course may be offered in fulfill ent of one of the requirements for distribution in the lower division. For tline of contents and time schedule see regular course descriptions under the spective departments.

ECONOMICS

. Economic Analysis. *Staff.* An introduction to modern economic ciety with emphasis on the nature and operation of the American onomy. 3 units. First semester. *MWF, 8, 9, 10, 11; TThS, 8, 9, 10;* for those atinuing second semester with Government 52, *MWF, 8; TThS, 8.*

. Economic Problems and Policies. *Staff.* A continuation of Economics 51 th emphasis on current problems and related public policies. Prerequisite: onomics 51. 3 units. Second semester. *MWF, 9, 10, 11; TThS, 9, 10.*

57. Statistics for the Social Sciences. *Mr. Child.* A course in the applica tion of quantitative method to economic and social problems with emphasis o the interpretation of the results obtained. (Credit will not be given for both Economics 57 and Psychology 102.) 3 units. Second semester. *TTh, 8* laboratory, *T* or *W, 1:15-3:05.*

71. Elementary Enterprise Accounting. *Mr. Rostvold.* The theory an practice of accounting in the merchandising business firm. Corporation, part nership, and individual proprietorship accounting. 4 units. First semester *MWF, 8;* laboratory, *Th* or *F, 1:15-3:05.*

72. Elementary Cost Accounting. *Mr. Rostvold.* The theory and metho of accounting in the manufacturing business unit. Emphasis on job-order process, and standard cost systems. Prerequisite: Economics 71 or equiva lent. 4 units. Second semester. *MWF, 8;* laboratory, *Th* or *F, 1:15-3:05.*

ADVANCED COURSES

Economics 51 and 52 or equivalent are prerequisites for all advanced course in Economics.

103. Money and Banking. *Mr. Bond.* Principles of money, credit, and bank ing; the relation of money, income, and prices; and the problems of monetar management and fiscal policy. 3 units. First semester. *TThS, 9, 10.*

104. Economic Theory and Business Policy. *Mr. Child.* A study of ecc nomic organization, markets and prices, resource use and income division i markets containing various mixtures of competition and monopoly. 3 units First semester. *MWF, 10.*

106. Economics of Consumption. *Mr. Perry.* A study of consumer behavio and an analysis of factors behind demand; includes such subjects as mathe matics of finance, insurance and investments. 3 units. First semester. *MWF, 1(*

107. Development of the American Economy. *Mr. Perry.* A survey of th economic history of the United States. Emphasis is placed on such distinctiv factors as resources, technological developments, and the cultural milieu. units. First semester. (Omitted in 1955-56.) *MWF, 10.*

109. National Income. *Mr. Rostvold.* A study of national income concept and their measurement, the determinants of the level of national income an employment, and the general features and causes of fluctuations in economi activity. 3 units. Second semester. *TThS, 9.*

110. Industrial Organization and Public Policy. *Mr. Bond.* The role o competition in a free society; public policies designed to maintain competition alter its character, or regulate monopoly, in light of the economic characteristic and business practices of modern industry; a study in economics and law. units. Second semester. *MWF, 10.*

111. Labor Economics. *Mr. Perry.* A brief history of organized labor is followed by an analysis of wage policies, labor productivity, collective bargaining, minimum wage legislation, labor monopoly and current labor legislation. 3 units. Second semester. *MWF, 9.*

120. Public Utility Economics. *Mr. Rostvold.* An historical and analytical study of public utility problems in the United States, with emphasis on the economics of overhead costs, and the economic and legal problems of regulation. 3 units. First semester. (Omitted in 1955-56.) *MWF, 10.*

154. International Trade. *Mr. Child.* An analysis of trade and monetary relationships in the international economy. 3 units. First semester. *TThS, 9.*

155. International Finance. *Mr. Child.* An analysis of contemporary international economic problems and policies. Prerequisite: Economics 154 or permission of the instructor. 3 units. Second semester. *TThS, 9.*

158. Applied Statistics. *Staff.* A study of the methods currently used in market research, quality control, and public opinion pooling. Designing the sample, questionnaire construction, training interviewers, variance analysis, partial and multiple correlation. 3 units. First semester. (Omitted in 1955-56.) *TThS, 9.*

189. Public Finance. *Mr. Rostvold.* An analysis and evaluation of the effects of current governmental taxing, spending, borrowing, and debt management policies on the American economy. 3 units. First semester. *MWF, 9.*

190. History of Economic Thought. *Mr. Perry.* A survey of the development of economic science and policy from the forerunners of the classical school to the present date. 3 units. Second semester. *MWF, 10.*

191. Monetary Theory and Policy. *Mr. Cook.* The interrelationships of money, income, and prices, with emphasis on the theory of output as a whole and policies designed to maintain high level employment without inflation. Prerequisites: Economics 103, 104, and 109, or equivalent. 3 units. First semester. *TThS, 10.*

195. Comparative Economic Systems. *Mr. Cook.* A comparison of alternative forms of economic organizations, with major emphasis on the economic systems of the United States and the Soviet Union. 3 units. Second semester. *TThS, 10.*

198. Introduction to Research. *Staff.* Supervised advanced study in selected fields of economics. Open to qualified seniors with the permission of instructor. 3 units. First semester. *MWF, 11.*

199. Readings in Economics. *Mr. Bond.* Senior seminar for economics majors. Reading and discussion on leading books and current problems. 3 units. Second semester. *MWF, 11.*

Business Law. For description, see Government 106.

AVAILABLE AT CLAREMONT MEN'S COLLEGE

Courses in such fields as accounting, international trade, corporation financ and personnel administration are available at Claremont Men's College. Qual fied students may enter these courses with the permission of their advisers.

AVAILABLE AT CLAREMONT GRADUATE SCHOOL

Open to qualified seniors with the permission of the chairman of the depar ment and the instructor of the graduate seminar. For other graduate course consult the catalog of The Claremont Graduate School.

206. MONETARY THEORY AND POLICY. *Mr. Cook.* 4 units. First semester. *TTh 10 a.m.*

218. HISTORY OF ECONOMIC THOUGHT. *Mr. Perry.* 4 units. Second semeste *MWF, 10 a.m.*

Education

All students considering teaching as a career should study the section o "Public School Teaching and Administration" on page 70.

Requirements for concentration: 24 units of work in courses numbered ov 100, as prescribed below.

Prerequisite courses: Education 53a, 53b; Psychology 51a-b; Economics 5 Government 52; Sociology 51. *Required courses:* Education 104, 105, 151, 19 Sociology 106 or 109 or 112; Psychology 107 and 108; Government 103. Th Program should include further work in psychology and sociology. Ar English, geography, history, life sciences, music, physical education, and speec are desirable. Students anticipating teaching in Southern California are urge to acquire some familiarity with the Spanish language.

53a, 53b. INTRODUCTION TO EDUCATION. *Mr. Lee, Mr. Sanders.* 53a dea with the basic philosophy and the organization and operation of America education. 53b examines the educational impact of social forces outside th school and some of the major problems of contemporary American educatio 3 units. *MWF, 8.*

104. HISTORY OF EDUCATION: EUROPEAN AND COMPARATIVE. *Mr. Lee.* Th European roots of contemporary American educational traditions and practice Contemporary educational policies and practices in foreign countries. 3 unit First semester. *MWF, 10.*

105. HISTORY OF EDUCATION: UNITED STATES. *Mr. Lee.* A study of th growth and evolution of education in the United States. Stress is placed upo the intellectual, social, and economic forces which have shaped education developments. 3 units. Second semester. *MWF, 10.*

151. Introduction to the Philosophy of Education. *Mr. Lee.* A study of the major contemporary philosophical approaches to American education. An attempt to answer the question: What kind of education for modern America? 3 units. First semester. *TThS, 8.*

185. Higher Education in America. *Mr. Lee.* A seminar for persons intending to enter college or university teaching. History, philosophical currents, and contemporary issues. 3 units. Second semester. *TTh, 2:15-3:30.*

190. Comprehensive Seminar in Education. *Mr. Lee.* A seminar for seniors concentrating in education, open to others with instructor's permission. Selected educational problems will be considered through independent research, observation, and discussion. 3 units. Second semester. *W, 3:15* and arranged.

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A wide range of graduate work in Education leading to the various credentials, as well as to the degree of Master of Arts, is offered at the Claremont Graduate School.

English

English 1 or its equivalent is prerequisite for all other departmental courses. English 50 and History 1 are required of all students intending to concentrate in the Department of English.

A reading knowledge of at least one language and literature other than English, as well as high school preparation in Latin, is strongly recommended. In most graduate schools, candidates for the degree of Doctor of Philosophy are required to have a reading knowledge of *two* foreign languages.

Electives should be chosen, in consultation with the adviser, from courses in Speech and Dramatics, foreign literature, the history of England, the history of philosophy, and (especially for students interested in writing) elementary applied art.

Transfer students may offer equivalent courses pursued at other colleges in fulfillment of these requirements and recommendations.

Concentration with Emphasis on Literature

Students who are concentrating in literature must choose from each of the four groups below at least the number of units specified. English 115 must be taken in the first semester of the Junior year.

Group I (6 units): English 153 *or* 154 *or* 155 *or* 156.

Group II (9 units): English 101 *or* 102 *or* 103 *or* 104.

Group III (6 units): English 105 *or* 192 *or* 193.

Group IV (6 units): English 115 *and* 195.

Concentration with Emphasis on Writing

The following pattern of courses must be completed, for a total of at least 27 units, by students concentrating in writing.

1. Upper-division courses in composition (111, 151; Speech and Dramatics 112): 6 to 12 units. Note that certain courses in composition may be repeated for credit under proper conditions.
2. English 153 *or* 154 *or* 155 *or* 156: 6 units.
3. English 101 *or* 102 *or* 103 *or* 104 *or* 105: 9 units.
4. English 192 *and* 193: 6 units.

A brief reading list, designed to acquaint students with the major figures in literature, will supplement course assignments in the programs of concentration. The books on this list, many of which will already have been read in course, will be included in the comprehensive examination.

Concentration in Literature and Philosophy: See Philosophy.

1a, 1b. English: An Introductory Course. *Staff.* The fundamentals of composition and practice in writing. Reading and study of a few important literary types. Students with marked deficiencies in the use of English may be required to meet for a fourth hour (arranged). 3 units. Section meetings *MWF, 8, 9; TThS, 8, 9.* Section of 1b first semester for specially qualified students, *TThS, 9.*

50a, 50b. Great Authors. *Staff.* An historical and critical study of several great writers, the major periods, and the dominant forms of literature in English. No student will be admitted to the second semester of the course who has not completed English 50a or an equivalent. 3 units. *MWF, 11; TThS, 9, 10.*

56. Introduction to Poetry. *Mr. Holmes.* A study of the principal aims and techniques of poetry. Readings in a wide variety of poetic types. 3 units. First semester. *MWF, 10.*

57. Introduction to Drama. *Mr. Davis.* Great plays of various periods from the classic Greek to the present day; as extensive reading as time will permit. 3 units. Second semester. *TThS, 9.*

58. Introduction to Prose Fiction. *Mr. Beatty, Mr. Frazer.* A survey of important works in prose fiction with emphasis upon selected novels—English, American, and continental—from the eighteenth century to the present. 3 units. First semester: *TThS, 9.* Second semester: *MWF, 10.*

60. News Writing. *Mr. Overaker.* The writing and presentation of news with special emphasis on daily newspaper practices. Enrollment limited to 25 students. 3 units. First semester. *TTh, 8,* and third hour arranged.

63. Expository Writing. *Staff.* Practice in expository writing, especially for the student who is planning a career in business or one of the professions, such as law, medicine, or scientific research. Enrollment limited to 25 students. 3 units. First semester: *MWF, 11.* Second semester: *T, 1:15-3:05,* and *Th, 1:15.*

64. Narrative and Descriptive Writing. *Mr. Weismiller, Mr. Mulhauser.* A course for students who, having shown some ability as writers in English 1 or its equivalent, wish to continue with the basic creative problems of narration and description. This course is a prerequisite for English 111 and 151. Enrollment limited to 25 students each semester. In exceptional circumstances, the course may be repeated for credit by permission of the instructor. 3 units. First semester: *TThS, 9.* Second semester: *TThS, 10.*

ADVANCED COURSES

101a, 101b. The Renaissance in England. *Mr. Strathmann.* Non-dramatic literature of the English Renaissance: the works of Spenser, his contemporaries, and writers of the first half of the seventeenth century. 3 units. *MWF, 9.*

102. The Age of Swift and Pope. *Mr. Bracher.* A survey of the literature of the Restoration and early eighteenth century. Main topics: Restoration drama and neo-classic literature. 3 units. Second semester. *MWF, 2:15.* (Offered in alternate years; not offered in 1955-56.)

103. The Age of Johnson. *Mr. Bracher.* A survey of the literature of the later eighteenth century. Main topics: the beginning of the novel, pre-romantic poetry, Dr. Johnson and his circle. 3 units. Second semester. *MWF, 2:15.* (Alternates with 102.)

104a, 104b. Literature of the Nineteenth Century. *Mr. Mulhauser.* An intensive study of the major poets and prose-writers of the Romantic period (first semester) and the Victorian period (second semester). 3 units. *TThS, 9.*

105a, 105b. American Literature. *Mrs. Jordan, Mr. Holmes.* An intensive study of the great American writers of the nineteenth century. First semester: Edwards to Hawthorne. Second semester: Melville to E. A. Robinson. 3 units. *TThS, 10.*

111. The Short Story. *Mr. Mulhauser.* Practice in the writing of short stories and sketches. (A student who has completed both English 111 and English 151 may repeat one of these courses for credit.) Enrollment limited to 25 students. Prerequisite: English 64 and permission of the instructor. 3 units. First semester. *T, 1:15-3:05,* and *Th, 1:15.*

115. Literary Criticism. *Staff.* Reading of important documents of literary criticism; application of critical principles and techniques to selected literary works. 3 units. First semester. *W, 2:15-4:05; F, 2:15.*

151. Creative Writing. *Mr. Weismiller.* Supervised practice in the forms of creative writing, selected according to the needs and abilities of the students. (A student who has completed both English 111 and English 151 may repeat one of these courses for credit.) Enrollment limited to 25 students. Prerequisites: English 64 and permission of the instructor. 3 units. Second semester. *T, 1:15-3:05,* and *Th, 1:15.*

153. Chaucer. *Mr. Davis.* A study of Chaucer as the outstanding narrative and dramatic poet of the transition from the medieval to the modern world. 3 units. Second semester. *MWF, 10.* (Alternates with 156.)

154. The English Language. *Mr. Bracher.* A survey of the English language from its origins to the present. Especially recommended to prospective teachers. 3 units. First semester. *MWF, 10.*

155a, 155b. Shakespeare. *Mr. Strathmann.* A study of the principal plays and of Shakespeare's career as a dramatist. First semester, mainly comedies and histories; second semester, mainly tragedies. 3 units. *MWF, 11.*

156. Milton. *Mr. Weismiller.* A study of the poems and selected prose works, emphasizing the literary and intellectual background of Milton's work. 3 units. First semester. *MWF, 9.* (Alternates with 153; not offered in 1955-56.)

192. Contemporary Novelists. *Mr. Mulhauser.* The novels of James, Lawrence, Joyce, Woolf, Hemingway and Faulkner, with emphasis upon their principles of narrative art and philosophical points of view. 3 units. First semester. *MWF, 10.*

193. Contemporary Poets. *Mr. Weismiller.* Poets of the twentieth century, Gerard Manley Hopkins to the present, studied in the light of the great poetic tradition. 3 units. Second semester. *MWF, 10.*

195. Readings in English Literature. *Staff.* A seminar open to seniors concentrating in English. Lectures, readings, and reports directed toward a synthesis, on the student's part, of his work in English. 3 units. Second semester. Two sections: *T, 3:15; Th, 2:15-4:05.*

196. Problems of Writing. *Mr. Weismiller.* A specialized course in advanced composition; group and individual conferences. Prerequisites: English 64, 111 and 151 and permission of instructor. 1 or 2 units. Second semester, one hour a week. Arranged.

197. Directed Reading. *Departmental Staff.* Seniors concentrating in English may enroll for individually planned reading programs, usually supplementary to advanced courses. Prerequisites: a grade point average in English of 3.4 or better; permission of the instructor and the departmental chairman. Enrollment may be repeated. 3 units. Each semester. Arranged.

Character Presentation in Dramatic Literature. For description see Speech and Dramatics 61a, 61b.

Playwriting. For description see Speech and Dramatics 112a-112b.

AVAILABLE AT SCRIPPS COLLEGE

Some Scripps courses (starred) duplicate courses at Pomona. Credit will be allowed for either the Scripps or the Pomona course, but not both.

*I-113. Contemporary Fiction. *Mr. Gray.* Second semester. *MWF, 10.*

*I-116a, b. Shakespeare. *Mr. Gray.* (First semester, Tragedy; second semester, Comedy.) *MWF, 11.*

I-119. Advanced Writing. *Mr. Armour.* Year course. Registration limited. *TTh, 8* and arranged.

I-136. Seventeenth Century English Literature. *Mr. Fogle.* First semester. *MW, 3:15-4:30.*

*I-145. Milton. *Mr. Fogle.* Second semester. *MW, 3:15-4:30.*

*I-144. The Romantic Poets. *Mr. Armour.* Year course. *MWF, 8.*

I-154. The Nature of Poetry. *Mr. Gray.* First semester. *MWF, 10.*

I-158. The East in American Literature. *Mr. Foster.* First semester. *MWF, 11.*

I-159. The Midwest in American Literature. *Mr. Foster.* Second semester. *MWF, 11.*

Geology

Geology 1 and 2 make up an introductory survey course, designed for the non-technical student. This course is also a prerequisite for all the more advanced work in the department, except Geology 59. The other courses are designed for persons intending to specialize in geology or a related science.

A student concentrating in geology should include courses 1, 2, 59, 102, 10, 112, 181, 182, an approved summer field course, and either 107 or 151. Required in other departments: Mathematics 1, 65; Physics 51; Chemistry 1, nd a reading knowledge of German, French or Spanish (German preferred). re-Engineering 7 and 40 are desirable. In exceptional cases courses in biology ay be substituted for those in physics and chemistry. Rarely the requirement f a summer field course is waived.

Seniors graduating in geology must write an acceptable thesis based on ork done in Geology 181, 182.

a-1b. Introduction to Geology. *Mr. McIntyre.* A survey of geologic prinples and processes, and of earth history. Must be accompanied by Geology 2. units. *MWF, 10.*

a-2b. Laboratory and Field Trips Supplementing Geology 1a-1b. *Staff.* pen to students who are taking or have taken Geology 1 or its equivalent. ee $3.00 each semester. 1 unit. *M, W* or *Th, 1:15-4:05.*

). Mineralogy, Including Crystallography. *Mr. Baird.* Prerequisite: gh school chemistry or equivalent. Two class and two laboratory periods. aboratory fee $4.00. 4 units. First semester. Class *WF, 11,* laboratory *T* and , *1:15-4:05.*

102. Elementary Field Geology. *Mr. Shelton.* Field methods; geologic mapping; spring recess trip; writing of geologic reports. Prerequisite: Geology 110, completed or in progress. Desirable, Geology 112. Second semester. 3 units. Arranged.

104. Field Geology. *The Staff.* A summer field course in geologic mapping. Prerequisite: Geology 102 and 110. 6 units.

107a-107b. Invertebrate Paleontology. *Mr. Baird.* Prerequisite: Geology 1 and 2. Two class and one laboratory periods first semester; one class and two laboratory periods second semester. Laboratory fee $6.00 each semester. 3 units. Class *TTh, 9;* laboratory, arranged.

110. Petrology. *Mr. McIntyre.* The study of rocks without the aid of a polarizing microscope. Prerequisite: Geology 1, 2 and 59. Laboratory fee $4.00. Two class and two laboratory periods. 4 units. Second semester. *WF, 11* laboratory *T* and *F, 1:15-4:05.*

112. Structural Geology. *Mr. McIntyre.* Structural features of sedimentary, igneous and metamorphic rocks; deformation of the earth's crust; practice in laboratory methods dealing with geological problems in three dimensions. Prerequisite: Geology 110, completed or in progress. Laboratory fee $4.00. Two class and one laboratory periods. 3 units. First semester. *TTh, 10; laboratory* arranged.

151a-151b. Petrography. *Mr. Shelton.* The optical properties of crystals; study of minerals and rocks with the petrographic microscope. Two class and one laboratory periods first semester; one class and two laboratory periods second semester. Prerequisite: Geology 110. Laboratory fee $5.00 first semester, $8.00 second semester. 3 units. Arranged.

181, 182. Geological Investigation and Research. *Staff.* Laboratory fee $4.00 each semester. 3 units. Arranged.

AVAILABLE AT CLAREMONT GRADUATE SCHOOL

Open to qualified undergraduate students who have obtained the consent of the instructor in charge.

203. Regional Geology. (Omitted in 1955-56.)

205. Seminar in Physical Geology. Mr. McIntyre.

German

A program of concentration in German consists of a minimum of 18 units in courses numbered above 100 and 6 additional units in German or in a related field selected according to the student's needs and interests. Special programs for students interested in German Literature, translation, library work, or post-graduate work in German can be had from the department.

1a-1b. Elementary German. *Miss Wagner.* The acquirement of a small working vocabulary. Constant ear-training, and as much practice in speaking as time permits. Daily exercises in reading and writing. The essentials of grammar. 3 units. *MWF, 9, 11; TThS, 10.*

53a-53b. Advanced German. *Mr. Baumann.* Intensive reading of selected German works, with collateral reading in the field of the student's individual interest—literary, social, or scientific. Continued practice in German conversation. Prerequisite: German 1 or an equivalent. 3 units. *MWF, 9; TThS, 9.*

102a, 102b. Advanced Conversation, Readings and Translation. *Miss Wagner.* Intensive critical readings of masterpieces of the eighteenth and nineteenth centuries. Drill in written and oral expression. Prerequisite: German 53 or equivalent. 3 units. *MWF, 9.* (Omitted in 1955-56.)

109a, 109b. German Literature of the Nineteenth Century. *Miss Wagner.* With special reference to the cultural, economic and political history of Germany. Discussion and papers. Prerequisite: German 53 or equivalent. 3 units. *TThS, 9.* (Omitted in 1955-56.)

113a, 113b. German Classics of the Eighteenth Century. *Miss Wagner.* A study of the outstanding works and personalities of the period with particular attention to the social and political life of Germany. Prerequisite: German 53 or equivalent. 3 units. *TThS, 9.*

158a, 158b. Modern German Literature. *Mr. Baumann.* The development of German Literature from 1880 to the present with reference to the political and social changes during that period. 3 units. *MWF, 11.*

160a, 160b. Survey of German Literature. *Mr. Baumann.* The development of German Literature from earliest times to the present. 3 units. Arranged. (Omitted in 1955-56.)

Government

General Requirement: Government 51 and 52 are desirable prerequisites for advanced courses, but the Department invites Juniors and Seniors with B averages to confer with staff members regarding enrollment in any course desired.

Lower Division Prerequisites for Concentration: The following courses should be completed by the end of Sophomore year: History 1; Government 1, 52; Economics 51, 52. The introductory course in Sociology is strongly recommended and also the elementary course in statistics and a semester of accounting.

Program of Concentration: A minimum of 24 upper division units in Government, including in each case Government 104, 125, 154, 157 or 159, 182, 183, and 6 upper division units from one of these fields: Economics,

History, Sociology. These combinations are especially recommended: Economic 103 and 189 or 104 and 110; History 107a, b, 113a, b; Sociology 102 and 111. Each student's program shall be arranged in consultation with the departmental staff. A reading and speaking knowledge of at least one modern foreign language is strongly advised, particularly for students having any intention whatever of seeking positions in foreign service or foreign trade or of engaging in graduate study.

Three Year M.A. Program: Proximity and cooperation between Pomona College and the Claremont Graduate School make it possible for students so interested to plan, beginning with their junior year, a three-year program enabling them to earn both the B.A. and M.A. degrees. Any student interested in pursuing such a program is invited to confer with the Department.

AMERICAN ECONOMIC AND POLITICAL INSTITUTIONS

Pomona College believes that its graduates should be familiar with the economic and political foundations of American life. To this end the Departments of Economics and Government have organized a year course in American economic and political institutions through which students who cannot take a full year in each subject may nevertheless gain some understanding of both fields. This course combines a semester's study of economics with another semester devoted to American Government and the formal classwork is supplemented by a series of special lectures which all students are expected to attend. These lectures (which are open to other students and faculty as well) are designed to present the insights of persons who have had practical experience in business and government and the speakers are chosen from leaders in government, industry, finance, labor and law.

That part of the course pertaining to economic institutions (Economics 51) is offered only during the fall term and that pertaining to politics (Government 52) only in the spring but students may begin the course at whichever time best suits their schedules. The combined course may be offered in fulfillment of one of the requirements for distribution in the lower division. For outline of contents and time schedule see regular course descriptions under the respective departments.

51. Fundamentals of Politics. *Staff.* Political theory, institutions and behavior as revealed in the enduring issues of politics. First semester. 3 units. *MWF, 8, 10; TThS, 8, 9, 10.*

52. American Government. *Staff.* Analysis of the American system of constitutional government, mainly on the national level, and of the position of the U. S. in world politics. May be combined with Economics 51 to enable students who cannot devote more than six hours to the two fields to do some basic work in each. 3 units. Second semester. *MWF, 8, 10, 11; TThS, 8, 9, 10.*

103. State and Local Problems. *Mr. Musolf.* Trends and problems on all levels of California government including their inter-relationships. Emphasis on public education, municipal management, natural and human resources. 3 units. First semester. *TTh, 1:15-2:30.*

104. Principles of Administration. *Mr. Musolf.* Forms and modes of public administration: budgeting, personnel management, public relations, performance measurement, comparisons with business practices. 3 units. Second semester. *MWF, 8.*

105. Introduction to Law. *Mr. Musolf.* Nature of law, development of Anglo-American legal institutions, theories of jurisprudence. 3 units. First semester. *TThS, 9.*

109. Fundamentals of International Relations. *Mr. Olson.* Basic factors of power; the balancing process; comparative foreign-policy making; approaches to world order. 3 units. First semester. *TThS, 10.*

112. Political and Economic Geography. *Mr. Olson.* Resources, location and other environmental influences upon trade, diplomacy and military strategy. 3 units. First semester. *TTh, 1:15-2:30.*

125. Modern Democracies. *Mr. Vieg.* Comparative analysis of political forces and governmental institutions in various democratic countries, notably Britain, France and Germany. 3 units. First semester. *MWF, 9.*

126. Modern Totalitarianism: U. S. S. R. *Mr. Olson.* Theory and practice of recent dictatorships with emphasis on Soviet regime since 1917. (May be combined with History 114 to comprise a year's work in the History of Russia.) 3 units. Second semester. *MWF, 9.*

154. Constitutional Law. *Mr. Musolf.* Nature and extent of constitutional power; separation of powers doctrine; federal-state relations; powers of Congress and Presidency; citizenship and suffrage; guarantees of individual rights. 3 units. Second semester. *TThS, 10.*

157. Parties and Pressure Groups. *Mr. McDonald.* Role of parties, pressure groups, voters and politicians in the American political process. 3 units. First semester. (Omitted 1955-56.)

159. The Electoral Process. *Mr. Vieg.* Theoretical analysis of electoral problems combined with field work in practical politics. Primarily for majors but open to others with permission of instructor. 3 units. Second semester. Arranged. (To be offered again in the fall of 1956 during the presidential election.)

160. The Administrative Process. *Mr. Vieg.* Pro-seminar on administrative theory combined with field work in public administration. Individual projects and reports. Primarily for majors but open to others with permission of instructor. 3 units. First semester. Arranged. (To be offered again during the second semester, 1956-57.)

161, 162. Readings and Research in Government. *Staff.* Open to students capable of independent study. Individual programs must be approved in advance. 2 or 3 units. Arranged.

165. Foreign Policies of the United States. *Mr. Olson.* American dipl matic history; powers of President and Congress on control of foreign relation examination of contemporary policies. 3 units. First semester. (Omitted 1955-56.)

169. Seminar in International Relations. *Mr. Olson.* Integration of histo ical, economic and political aspects of the field, with emphasis upon theor Open to non-concentrators by permission. 3 units. Second semester. *TTh, 1:1 2:30.*

180. Social Institutions and Social Theory. *Staff.* Representative theori about contemporary social institutions drawn from the several social scienc Seminar primarily for senior concentrators in Modern Social Institutions. units. Second semester. Arranged.

182. Political Theory: Normative. *Mr. McDonald.* Examination of func mental values posited by the great political thinkers: justice, law, duty, righ property, welfare. 3 units. First semester. *MWF, 11.*

183. Political Theory: Causal. *Mr. McDonald.* Theories concerning politi behavior and the governmental process: power, equilibrium, group, authori Application of these theories to senior theses in government. 3 units. Seco semester. *MWF, 11.*

Honors Study

Students of marked capacity are invited to arrange with the Department f enrollment in programs of independent study culminating in the presentati of a dissertation on some subject of special interest and significance. One h of the minimum requirement of 12 units may be met by Government 1 and 183 which together constitute the Senior seminar.

Statistics For Social Scientists. For description see Economics 57.

Elementary Accounting. For description see Economics 71.

available at claremont men's college

Administrative Organization in Business and Government. *Mr. Bens* 3 units. Each semester.

Business Law. *Mr. Fick.* 3 units. Each semester.

available at claremont graduate school

Open to qualified seniors with the consent of the instructor.

230. Politics and Legislation. *Mr. Vieg.* 3 units. Second semester.

232. Public Opinion and Public Policy. *Mr. Lee.* 3 units. Second semest

THE WASHINGTON SEMESTER

Pomona is one among a number of colleges which have been invited The American University to participate in its Washington Semester progr

vhereby a limited group of undergraduate students are afforded an opportunity for special study of the governmental process in the national capital. The College has been allotted a quota of four students annually, the choice mong applicants being made by a Faculty Selection Committee. Preference is iven to juniors. Under a cooperative agreement tuition is paid in the egular manner to Pomona College while charges for board and room are aid in Washington, D. C. Candidates selected defray their own costs for ravel and other expenses. Students interested in the program are invited to onsult with the chairman of the Department of Government who serves as ocal representative.

History

eneral requirement: History 1, or its equivalent, is a prerequisite for all other ourses in History. Except for History 1, either semester of year courses may e taken separately without special permission of the instructor. Qualified ophomores may elect courses in the 100-150 range with the approval of the structor.

oncentration requirements: Students planning to concentrate in History are quired to take History 1, 55, 140, and 190 as well as a pro-seminar in istory. They should also take Government 51 and 52 and Economics 51 and during the Freshman and Sophomore years. During Junior and Senior ars in addition to History 140, 190, and a pro-seminar, they must take at ast 12 units of upper division courses in History, and at least 6 units of per division courses in a related field such as Economics, Government, terature, Philosophy, Religion, or Sociology. A knowledge of foreign nguages is of great value to students in History, and all concentrators are ged to gain as much proficiency as possible in this direction. Students who ve in mind advanced work in History should remember that most graduate hools require a reading knowledge of one foreign language for the M.A. and two for the Ph.D. The courses taken in a program of concentration in istory should be carefully selected, and the program as a whole should be anned in consultation with a member of the History Department. All conntrators in History will write three examinations of a comprehensive ture near the end of Senior year. One of these will be the same for all ncentrators in History and will deal with the subject as a whole, its point view and its method. In addition, each concentrator will select two from e following list of fields in which to be examined: Ancient History, Europe 2-1648; Europe since 1648; the United States; Latin America; and the Far st. The examinations are not designed with the expectation that students ll have taken all courses offered by the Department in one or another field order to pass that examination. Since the fields are broad, an equal degree familiarity with all aspects is not required. It is the view of the Department t judiciously planned independent reading may well supplement or replace urses in preparation for part of the examinations.

The Department encourages qualified students to undertake programs o Honors Study. Information respecting such programs may be obtained fron the Departmental Staff.

JOINT CONCENTRATION: PHILOSOPHY AND HISTORY.
See Philosophy.

1a-1b. HISTORY OF WESTERN CIVILIZATION. *Staff.* A survey of political, re ligious, intellectual, and economic developments in Europe and their expand ing influence. First semester: Ancient Greece to the end of the Middle Ages second semester: Renaissance to the present. 3 units. *MWF, 8, 9; TThS, 8, 9*

2a, 2b. ASIA AND EUROPE. *Mr. Ch'en.* A survey of Eastern contacts with an contributions to Western Civilization with emphasis upon the interdependenc of cultures. May be taken concurrently with History 1a-b. 1 Unit. (Omitted i 1955-56.)

53. CURRENT HISTORY. *Mr. Herring.* Analysis of contemporary national an international issues, based upon reading of representative newspapers an magazines. Fee of $4.00 from each student to pay for material used. Firs semester. May be repeated for credit. 1 unit. *Th, 1:15.*

55a, 55b. HISTORY OF THE UNITED STATES. *Mr. Kemble.* The political, eco nomic, and cultural development of the United States. First semester: 1607 t 1850; second semester: 1850 to the present. 3 units. *MWF, 11.*

101. HISTORY OF GREECE. *Mr. Carroll.* A survey from the prehistoric age unti the Roman conquest with special emphasis on the city-state and democracy. units. (Offered in alternate years; omitted in 1955-56. To be given in 1956-57.

102. HISTORY OF ROME. *Mr. Carroll.* The Republic and Empire from th founding of the city until the sixth century A. D. 3 units. (Offered in alternat years; omitted in 1955-56. To be given in 1956-57.)

103a, 103b. HISTORY OF THE MIDDLE AGES. *Mr. Learnihan.* A study o political, economic, intellectual, and religious developments and institution during the transition from Mediterranean to European civilization. Firs semester: 312-1054; second semester: 1054-1300. 3 units. *TThS, 9.* (Offered i alternate years; given in 1955-56.)

107a, 107b. HISTORY OF ENGLAND. *Mrs. Davies.* The religious, intellectual, an economic, as well as the political, evolution of Great Britain and the Empir First semester: to 1688; second semester: 1688 to the present. 3 units. *MWF, 1*

108. HISTORY OF THE RENAISSANCE AND REFORMATION. *Mr. Learnihan.* study of the transition from Medieval to Modern civilization in Europe be tween 1300 and 1648. 3 units. (Offered in alternate years; omitted in 1955-56.

109. Absolutism and Enlightenment in Europe. *Mr. Smith.* An analysis of the social, economic, political, and cultural developments in Europe from 1648 to 1789 with France as a focal point. 3 units. First semester. *TThS, 10.* (Offered in alternate years; given in 1955-56.)

110. French Revolution and European Reaction. *Mr. Smith.* Europe from 1789 to 1848 with special emphasis on the impact of France, and the role of the French Revolution in shaping contemporary civilization. 3 units. Second semester. *TThS, 10.* (Offered in alternate years; to be given in 1955-56.)

113a, 113b. Europe Since 1848. *Mr. Meyer.* A study of political, economic, social, and intellectual developments with reference both to their intrinsic significance and to an understanding of contemporary Europe. 3 units. *MWF, 10.*

114. History of Russia. *Mr. Smith.* Internal developments to 1917 together with a consideration of Russia's historical relationships with Baltic, Balkan, and Polish neighbors. This course may be followed by Government 126 to institute a year's work in Russian history. 3 units. First semester. *MWF, 9.* (Offered in alternate years; to be given in 1955-56.)

117a, 117b. Intellectual History of Europe. *Mr. Learnihan.* A study of the formation of ideas and ideals significant in politics, religion and science from classical times to the present. (Offered in alternate years; omitted in 1955-56.)

123a, 123b. History of Latin America. *Mr. Herring.* The Indian and colonial backgrounds; the development of the twenty independent republics to the present day. 3 units. *W, 7:30-9:45 p.m.*

130. Modern Maritime and Naval History. *Mr. Kemble.* A study of the development of sea power and oceanic commerce from the 15th century to the present. 3 units. Second semester. *MWF, 9.* (Offered in alternate years; given in 1955-56.)

134. The History of Spain. *Mr. Herring.* The history of the Iberian Peninsula, from ancient times to the Siglo de Oro. Designed as introduction to Latin American history. First semester. 3 units. (Offered in alternate years; omitted in 1955-56.)

135. The Colonial Period of Latin America. *Mr. Herring.* The Spanish and Portuguese Conquest, colonial government, social and economic institutions, the Church. Second semester. 3 units. (Offered in alternate years; omitted in 1955-56.)

... Colonial America, 1607-1763. *Mr. Adair.* The political, economic, and intellectual history of the Thirteen British Colonies in North America. 3 units. First semester. *MWF, 1:15.*

143. The American Nation, 1763-1815. *Mr. Adair.* A study of the achieve ment of independence by the United States and the establishment of th republic. 3 units. Second semester. *MWF, 1:15.*

145. History of the Pacific Coast. *Mr. Kemble.* The exploration and settle ment of the region and its political, economic, and social development to th present. 3 units. (Offered in alternate years; omitted in 1955-56.)

150. Reading and Research in History. *Staff.* Individual program of reading on significant historical topics or fields. Permission of th member of the department with whom the reading is to be done must be ob tained prior to registration. May be repeated for credit. 2 to 4 units. Arranged

157. Representative Historical Personalities. *Mr. Learnihan.* A study o the parts played by a group of significant individuals in the unfolding o Western Civilization and their impact on historical change. 3 units. (Offere in alternate years; omitted in 1955-56.)

165. Representative Societies. *Mr. Gleason.* 5th century Athens, 13t century France, 16th century England, 19th century New England. A cours for Seniors designed to integrate the total program. 3 units. First semeste *MWF, 10.* (Omitted in 1955-56.)

For courses in Far Eastern History see those listed under Oriental Affairs.

The following courses are designed primarily for concentrators in Histor Other students may be admitted with the permission of the instructor. It intended to offer one pro-seminar in European and one in American Histor each year, but the subject studied will vary from time to time. Arrangement may be made for work of this type in Far Eastern and Latin America History at the Claremont Graduate School.

140. The Study of History. *Mr. Learnihan.* An introduction to the method techniques, schools, and philosophies of history. 3 units. Both semesters. *TT 2:15-3:45.*

160. Pro-Seminar in European History. *Mr. Meyer.* The subject for 1955-5 will be European Fascism, 1918-1939. Second semester. *MW, 2:15* an arranged.

170. Pro-Seminar in American History. *Mr. Kemble.* The subject f 1955-56 will be the History of Western America. First semester. *MW, 2:15* an arranged.

190. Historical Problems and Interpretation. *Mr. Smith.* Considerati of major historical developments and some of the most significant works i European and American history. 3 units. Second semester. *T, 2:15-3:45* an arranged.

AVAILABLE AT SCRIPPS COLLEGE

III-106. Problems of International Relations. *Mr. Britt.* 3 units. Second semester. *TThS, 10.*

III-117a, III-117b. American Intellectual and Social History to 1865. *Mr. White.* 3 units. *MWF, 11.* (Offered in alternate years: American Intellectual and Social History since 1865.)

Humanities IV. America in the Contemporary World. *Staff.* 3 units. Year course. *M, 8:15-10:15* p.m. Enrollment by permission.

AVAILABLE AT CLAREMONT MEN'S COLLEGE

110. History and Problems of Imperialism. *Mr. Mann* or *Mr. Povlovich.* 3 units. First semester.

160. English Constitutional History. *Mr. Povlovich.* 3 units. Second semester.

AVAILABLE AT CLAREMONT GRADUATE SCHOOL

These offerings are designed primarily for graduate students, but are open to qualified Seniors by permission of the chairman of the department and the instructor.

201. Studies in Europe Since 1914. *Mr. Cooke.* Second semester. 3 units.

203. Europe in Transition, 1890-1914. *Mr. Meyer.* First semester. 3 units.

209. History of American Foreign Policy. *Mr. Cooke.* Second semester. units.

258a, 258b. Relations Between the United States and Latin America, Diplomatic, Economic, and Cultural 1800-1955. *Mr. Herring.* 3 units. *Th, 7:30-9:45* p.m.

International Relations

The field of international relations endeavors to integrate the knowledge and methodology of the traditional social science disciplines for the purpose of dealing with problems arising out of the contacts of nations in contemporary world society. The concentration of thirty units of upper division work consists of required courses in economics, government and history and electives in these and other related fields such as sociology, Latin American Affairs, Oriental affairs, philosophy, art and literature. At least six units must be devoted to special study of one of the following regions: Europe, Russian Area, Asian area, Latin America.

By the end of his junior year the student must demonstrate at least a reading knowledge of one modern foreign language, preferably a language from the area in which he intends to specialize. Majors in this field may also be required to write a senior thesis. Specific descriptions of the courses listed below will be found under the respective departmental listings.

Prerequisites: History 1, 2 and 55; Economics 51 and 52; Government 51 and 52.

Required courses: Government 109, Fundamentals of International Relations; History 113 a or b, Europe since 1848; Economics 154, International Trade, and three other units in Economics; Government 125, Modern Democracies; Government 126, Modern Totalitarianism: U.S.S.R.; Government 165, Foreign Policies of the United States; and Government 169, Seminar in International Relations (for senior concentrators).

Regional courses (at least six units in one region):

Europe:	History 107b; 113a, b; 117b; 160;
Russian area:	History 114, Government 126;
Asian area:	Oriental Affairs 103a, b; 105; 124; 140; 160;
Latin America:	History 123a, b, 128a, b.

Elective courses to complete or supplement the concentration are to be selected from course offerings in the Associated Colleges in consultation with the adviser in International Relations.

Under carefully defined conditions, the concentrator in this field may devote the junior year to study abroad.

Mathematics

Requirements for concentration: In addition to the basic courses of Mathematics 1a, b or 52, and 65a, b, the following courses are required: Mathematics 118, 119, 125, 151a, b, and at least three more upper division units in the Department of Mathematics. An additional six units must be taken in upper division Mathematics or selected from Physics 113a, b, or 191a, b or Astronomy 156a, b.

Mathematics 1a, b is normally prerequisite for all other work in the Department. However, students who have had trigonometry in high school may take an examination in mathematics on the Saturday preceding registration, and those who make a sufficiently high grade will be permitted to enroll in Mathematics 52 if they so desire.

1a, 1b. Introduction to College Mathematics. *Staff.* While this course prepares students for work in the calculus, it is at the same time comprehensive enough to provide in itself a general mathematical background. It includes college algebra, trigonometry, and an introduction to analytic geometry and calculus. 3 units. *MWF, 9, 10, 11; TThS, 9.*

52. Plane Analytic Geometry. *Mr. Tolsted.* Straight line, conic sections, higher plane curves in various coordinate systems. Credit will not be given for both Mathematics 1a, b and 52. 3 units. First semester. *MWF, 11.*

65a, 65b. Differential and Integral Calculus. *Staff.* This is a standard course in the theory and applications of the calculus. Prerequisite: Mathematics 1a, b or 52. 3 units. *MWF, 8; TThS, 9.* A section of Mathematics 65b will be offered in the first semester, *MWF, 10,* and a section of 65a second semester, *MWF, 11.*

102a, 102b. Introduction to Applied Mathematics. *Mr. Hamilton.* The elementary functions of applied mathematics, curve fitting, numerical integration and differentiation, coordinate systems, and vector methods. Principally concerned with the application of selected mathematical concepts to the other sciences. Prerequisite: Physics 51a, b. In 1955-56 the course will be shortened to one semester and will treat of vector analysis only, the prerequisite being only Mathematics 65a, b. 3 units. Second semester. *MWF, 8.*

118. Higher Algebra. *Mr. Jaeger.* Permutations, combinations, probability, binomial and multinomial theorems, summation of series, and other algebraic topics. Prerequisite: Mathematics 65a or permission of the instructor. 3 units. First semester. *MWF, 8.*

119. Theory of Equations. *Mr. Jaeger.* The theory and solution of algebraic and transcendental equations; determinants and matrices. Prerequisite: Mathematics 65a or permission of the instructor. 3 units. Second semester. *MWF, 8.*

125. Intermediate Calculus. *Mr. Hamilton.* Elements of solid analytic geometry; infinite series, partial differentiation, multiple integration. Applications. Prerequisite: Mathematics 65a, b. 3 units. Second semester. *MWF, 11.*

151a, 151b. Differential Equations. *Mr. Hamilton.* A general course in theory and applications. Prerequisite: Mathematics 65a, b. 3 units. *TThS, 10.*

152a, 152b. Advanced Calculus. *Mr. Tolsted.* Introduction to logic; limits, sequences, continuity, improper integrals, uniform convergence, Taylor and Fourier series, partial derivatives, and multiple integrals. Prerequisite: Mathematics 125. 3 units. *TThS, 9.*

194. Mathematical Statistics. *Mr. Hamilton.* The mathematical bases of statistical theories and methods, with applications from various fields. Prerequisite: Mathematics 65a, b. 3 units. First semester. *MWF, 11.*

195a, 195b. Actuarial Mathematics. *Mr. Jaeger.* Finite differences, interpolation formulas, approximations, summations, and probability. Prerequisite: Mathematics 65a, b and 118. 3 units. *TThS, 8.*

197a, 197b. Number Theory. *Mr. Jaeger.* Properties of integers, linear and quadratic congruences, and algebraic numbers. Prerequisite: Mathematics 65a, 3 units. *MWF, 10.*

198a, 198b. Selected Topics in Higher Mathematics. *Mr. Jaeger, Mr. Tolsted.* Special work or reading not included in the preceding is available

in this course to students of proved ability. Prerequisite: Departmenta approval. 3 units. Arranged.

Mathematical Physics. For description, see Physics 191a, 191b.

PRE-ENGINEERING

A student may take from one to four units in each of the following courses All courses numbered above 100 require instructor's approval for enrollment Study and drawing period *M, T, W, Th,* or *F, 1:15-4 p.m.* Lectur arranged.

7. Engineering Drawing. *Mr. Grimm.* A basic engineering drawing course including lettering, projection, visualization, and working drawings.

40. Descriptive Geometry. *Mr. Grimm.* The theory and principles o projection, including points, lines, plane sections, and development of surface Prerequisite: Two units of engineering drawing.

101. Architecture. *Mr. Grimm.* Basic work in architectural design includ ing the development of a complete set of working drawings.

102. Mechanisms. *Mr. Grimm.* Practice in the graphical solution of machin mechanisms.

103. Topography. *Mr. Grimm.* Practice in topographic mapping and mod construction.

AVAILABLE AT CLAREMONT SUMMER SESSION

60. Surveying. *Mr. Grimm.* A basic surveying course. 3 units.

Military Science

Pomona College, in conjunction with Claremont Men's College, maintai a General Military Science Unit, Senior Division, of the Reserve Office Training Corps, established under the National Defense Act for the purpo of training students to become officers of the Army of the United Stat The general purpose of the ROTC is to provide officers for the United Stat Army Reserve; it also now constitutes the principal source of procurement junior officers for the Regular Army. Those students who complete the fo year course will be eligible for appointment as second lieutenants in t United States Army Reserve. (Mere completion of the course is not tan mount to an automatic commission at graduation.) A student who demo strates special aptitude or proficiency will be offered an opportunity for appointment as a second lieutenant in the Regular Army. For the past tw years the Marine Corps has offered Regular Marine Corps commissions to t ROTC graduates of this institution.

The General Military Science ROTC program consists of subjects and material general in nature and scope so that the Department of the Army may appoint second lieutenants in the combat, administrative, and technical services of the Army.

The courses include both classroom and out-of-doors instruction.

The instructors in the department are officers of the United States Army assigned for duty at the college by the Department of the Army. The most modern weapons, equipment and types of instructional material are furnished to give the students practical experience in handling such equipment.

The four year program is divided into the Basic Course and the Advanced Course. Enrollment in the Basic Course is on a voluntary basis. Enrollment in the Advanced Course is on a selective basis. After a student has enrolled in either course, the completion of the second year of that particular course becomes a prerequisite for graduation.

Normally, the four year program for an incoming freshman without prior military service or prior ROTC training would be as follows:

Freshman Year	1st year Basic ROTC Course	MS I
Sophomore Year	2nd year Basic ROTC Course	MS II
Junior Year	1st year Advanced ROTC Course	MS III
Summer Vacation	ROTC Summer Camp (6 weeks)	
Senior Year	2nd year Advanced ROTC Course	MS IV
Graduation	Appointment as 2nd Lieutenant United States Army Reserve (see page 46)	

The Basic Course is open to all physically fit male students who are United States citizens. ROTC enrollment does not interfere with participation in sports by students nor in other college activities. Uniforms, equipment and texts for the courses are issued to the students without charge.

Previous military service furnishes a basis for credit for Basic Course instruction according to the individual's length of service, type of training, and honorable discharge from the Armed Forces of the United States.

Enrollment in the Advanced Course (MS III and MS IV) is limited to selected members who have completed the Basic Course, or have received equivalent credit. A student entering the Advanced Course must sign an agreement with the United States Government that he will devote five (5) class hours per week to Military Science during the academic year, that he will attend an ROTC Summer Camp of six (6) weeks duration between his MS III and MS IV courses, and that he will accept an appointment as a second lieutenant in the United States Army Reserve, if tendered. In consideration of this agreement, students receive cash allowances from the Government equivalent to a scholarship of about $640.00 for the two (2) year period of the Advanced Course.

Regularly enrolled ROTC students may be deferred from induction and service under current regulations. Students so deferred must agree to complete the Basic Course, if enrolled therein; to enroll in and complete the Advanced

Course if accepted therefor; and upon completion of the Advanced Course of instruction, to accept a commission, if tendered; to serve on active duty for a period of not less than two (2) years after receipt of such commission, subject to order by the Secretary of the Army and to remain a member of a Regular or Reserve Component of the Army until the eighth anniversary of the receipt of his commission unless sooner terminated. The Senior ROTC program will provide the principal source of procurement of junior officers for the Regular Army through selection of Distinguished Military Graduates of the Senior ROTC Units for direct Regular Army appointment.

1a-1b. Military Science Course I. (Basic Course). *Staff.* American Military History; Organization of the Army and ROTC; Individual Weapons and Marksmanship; and School of the Soldier and Exercise of Command (Drill). 2 units. Class *TTh, 8, 9* or *10;* drill, *M, 1:15-2:05.*

52a-52b. Military Science Course II. (Basic Course). *Staff.* Map and Aerial Photograph Reading; Crew-served Weapons and Gunnery; and School of the Soldier and Exercise of Command (Drill). 2 units. Class *TTh, 8, 9,* or *10;* drill, *M, 1:15-2:05.*

103a-103b. Military Science Course III. (Advanced Course). *Staff.* Organization. Function and Mission of the Arms and Services; Leadership; Military Teaching Methods; Military Sanitation and First Aid; Rifle Marksmanship, Camouflage and Field Fortifications; Small Unit Tactics and Communications; and School of the Soldier and Exercise of Command (Drill). 3 units. Class *MWF, 8* or *9; F, 11* or *1:15;* drill, *M, 1:15-2:05.*

Military Science ROTC Summer Camp. (Advanced Course). *Camp Staff.* Tactics and techniques; marksmanship and weapons training; marches and bivouacs; drills and parades; physical training and athletics; subjects pertinent to General Military Science. Six weeks, during the summer between the third and fourth year. Camp to be designated by Department of the Army.

154a-154b. Military Science Course IV. (Advanced Course). *Staff.* Supply and Evacuation; Motor Transportation; Troop Movements; Military Intelligence; Estimate of the Situation and Combat Orders; Command and Staff; Training Management; The Military Team; Military Administration; Military Justice; The Role of the United States in World Affairs and the Present World Situation; Leadership; Officer Indoctrination; and School of the Soldier and Exercise of Command (Drill). 3 units. Class *MWF, 8* or *9; F, 11* or *1:15;* drill, *M, 1:15-2:05.*

Music

The Department of Music offers instruction and opportunity for musical performance both to concentrators in the field and to non-concentrators.

Courses open to non-concentrators: Music Appreciation (53), Theory (1, 2, 4), History and Literature (103, 120, 121, 122, 123, 131), Applied Music—

vocal and instrumental. Group activities open to all students include College Choir (57), Orchestra (58), Band (59), Chamber Music (60), and the Glee Clubs. Qualified students may be admitted by special action of the Department to any course in music.

Requirements for concentration: The concentration program is designed both for the pre-professional musician preparing for a career as teacher or performer and for the student who may have other vocational plans but wishes to major in music as an undergraduate. The following courses are required of all students concentrating in music: Elementary Theory (1), Elementary Ear Training, Sight Singing, and Keyboard Harmony (2), Intermediate Theory (55), Intermediate Ear Training, Sight Singing, and Keyboard Harmony (56), Advanced Theory (107), and the two-year sequence in the History of Musical Style (120, 121, 122, 123). Students who have taken History of Music 104) will take Form and Analysis (159) in lieu of the two-year sequence in 955-56. Students transferring from other institutions as upperclassmen should ake the equivalent of the Lower Division required courses (1, 2, 55, 56) efore coming to Pomona. Freshmen and all transfer students must take a lacement test in theory to determine their proper course assignment and their ransfer credit from previous college theory study.

In addition to the required courses listed above, one of the following areas f concentration is required:

Applied Music: Music 111, 161, and Senior Recital.

Composition: Orchestration (113), Free Composition (158), and at least 4 nits of Group Activities.

General Music: A choice of any of the offerings of the Department that ill include at least 4 units of Applied Music, at least 4 units of Group ctivities, and at least 4 units of Upper Division course work. The foregoing ust include 8 units of Upper Division credit.

Secondary School Music: Choral Conducting (117), Instrumental Conucting (118), Rudiments in the Playing of Orchestral and Band Instruments 119), Orchestration (113), 4 units each in piano and voice (or equivalent), nd work in Choir, Band, or Orchestra. In conjunction with the Claremont raduate School, Pomona College offers a five-year program in which music ajors who intend to teach in the public schools may meet the requirements r the General Secondary Credential. Such students will normally elect econdary School Music as their area of undergraduate concentration. All udents preparing for the teaching credential should consult with the Clareont Graduate School about the state requirements as early as possible.

THEORY, HISTORY, AND LITERATURE

1-1b. Elementary Theory. *Mr. Loucks. Mr. Eller.* Diatonic harmony and mple, free counterpoint with emphasis on original work in small forms. Prequisite: ability to read music and play an instrument. Must be accompanied r 2a-2b. 3 units. *MWF, 9* or *1:15.*

2a-2b. Elementary Ear Training, Sight Singing, and Keyboard Harmony *Mr. Loucks, Mr. Eller.* Practical application of the material of 1a-1b. 2 hours 1 unit. *MW, 10; TTh, 10, 1:15.*

4a-4b. Materials of Music. *Miss Smith.* Basic theory for the layman: melody harmony, counterpoint, rhythm, form, notation and reading of music. May not be counted toward concentration in music. 3 units. *MWF, 10.*

53a-53b. Introduction to Music. *Mr. Dayton.* A survey of the principa periods in music history, with detailed study of representative works drawn from the symphonic, operatic, concerto, and chamber music literature. No previous musical experience required. 2 units. *MW, 2:15.*

55a-55b. Intermediate Theory. *Mr. Loucks, Mrs. Briggs.* Advanced harmony and further work in counterpoint. Original work in small forms, with em phasis on the styles of Bach, Mozart, Beethoven, and the Romanticists. Mus be accompanied by 56a-56b. Prerequisite: Music 1 and 2. 3 units. *MWF, 10* or *11.*

56a-56b. Intermediate Ear Training, Sight Singing, and Keyboard Harmony. *Mr. Loucks, Mrs. Briggs.* Practical application of the material o 55a-55b. 2 hours, 1 unit. *MW, 8; TTh, 10.*

60a, 60b. Chamber Music. *Mr. Fiske.* A study of important chamber musi literature from the 17th century to the present day through performance an analysis. Course also includes historical study of the works performed. Ope only to advanced instrumentalists able to participate in performance. Permis sion of instructor required. The course may be repeated for credit. 2 units *M, 1:15-3:05,* and arranged.

103a, 103b. Music in American History. *Mr. Fiske.* A study of the pa music has taken in the social and educational growth of the United State from the colonial period to the present day. Attention will be given to folk popular, and art music and their importance in various phases of our nationa cultural development. Not limited to music students. 3 units. *TThS,* (Offered in alternate years; not given in 1955-56.)

107a-107b. Advanced Theory. *Mr. Loucks.* Two and three part writing i contrapuntal forms: experience in free composition. Prerequisite: Music 55 an 56. 3 units. *TThS, 8.*

113a-113b. Orchestration and Instrumentation. *Mr. Blanchard.* Scoring fo orchestra, band, and vocal groups. Opportunity for public performance of ou standing work. Prerequisite: Music 55 and 56. 3 units. *Th, 2:15-4:05;* thir hour arranged.

117. Choral Conducting. *Mr. Russell.* Technique of conducting, repertoir score analysis, rehearsal planning, chorus building. Prerequisite, choral exper ence and demonstration of sufficient ability in sight-singing and piano. Pe mission of instructor required. 2 units. First semester. *F, 1:15-3:05.*

118. Instrumental Conducting. *Mr. Fiske.* A course specifically designed for students working for the State Music Credential. Baton technique, beat formation in all rhythms, score reading, rehearsal problems, repertoire. Permission of instructor required. 2 units. Second semester. *F, 1:15-3:05.*

119a-119b. Rudiments in the Playing of Orchestral and Band Instruments. *Miss Smith* and *Mr. Blanchard.* A course designed to give the student a knowledge of the fundamentals of wind and string instruments through study and practice. First semester: strings; second semester: winds. 2 units. *TTh, 1:15.*

The following four courses (120, 121, 122, 123) comprise a two-year sequence in the history of musical style. Study by formal analysis, class performance, and guided listening, of a repertoire selected to exemplify the respective periods stylistically and chronologically, with supplementary readings in the basic works of history and reference. Permission of the instructor required for non-concentrators. Concentrators must take the sequence in order, one course per semester.

120. Music of the Middle Ages and the Renaissance. *Mr. Russell.* 3 units First semester. *MWF, 9.*

121. Music of the Baroque and Pre-Classical Periods. *Mr. Russell.* 3 units. Second semester. *MWF, 9.*

122. Music of the Classical Period and the 19th Century. *Mr. Fiske.* 3 units. First semester. *TThS, 9.* (Omitted in 1955-56; to be given in 1956-57.)

123. Music of the 20th Century. *Mr. Dayton.* 3 units. Second semester. *TThS, 9.* (Omitted in 1955-56; to be given in 1956-57.)

131. Contemporary Music. *Mr. Dayton.* A study of the philosophies, ideals, and objectives of contemporary composers; examination of new idioms, forms mediums, and technique. Survey and analysis of important works of Debussy, Bartok, Schönberg, Strawinsky, Hindemith, and other outstanding figures of the 20th century. Students electing this course should be able to follow a score. Permission of instructor required. 3 units. First semester. Arranged.

158a-158b. Free Composition. *Mr. Eller.* Original work to develop the student's sense of musical structure and his individual style. Prerequisite: Music 107. 3 units. *W, 1:15-3:05;* third hour arranged.

159a-159b. Form and Analysis. *Mr. Blanchard.* Designed to lead to a clear understanding of the principles upon which musical form is based, and to the application of these principles in the works of the great masters of form. Prerequisite: Music 55. 2 units. *T, 2:15-4:05.*

AVAILABLE AT SCRIPPS COLLEGE

I-69. Nineteenth Century Music. *Mr. Pattison.* Year Course. *TTh, 1:15-2:45.*

II-111. Renaissance to Baroque Music. *Mr. Pattison.* Year course. *TTh, 3:15-4:45.*

II-112. History of Opera. *Mr. Hymanson.* First semester. *MWF, 8.*

II-113. Music Criticism. *Mr. Hymanson.* Second semester. *MWF, 8.*

GRADUATE STUDY IN MUSIC

Graduate work in Theoretical and Applied Music is offered under the auspices of the Claremont Graduate School.

GROUP ACTIVITIES

Open to all students in the college, subject to the following regulations: (1) permission of the instructor is required for Orchestra (58) and Band (59), (2) not more than two group activities may be taken simultaneously for credit, and (3) a total of not more than 16 units of credit for group activities may be counted toward the Bachelor of Arts degree.

57a-57b. College Choir. *Mr. Russell.* The study of classic and contemporary choral music through rehearsals leading to public performance. All students are eligible for the Choir, but continued membership is contingent upon satisfactory performance in a singing test held in October on music practiced during the opening weeks of the semester. New members admitted in first semester only. Fee to cover cost of music, $2.00. 1 unit. May be repeated for credit. *MWThF, 12:30-1:10; T, 11:30-12:20.* (Women do not meet on *Th*, men do not meet on *M.*)

58a, 58b. Orchestra. *Mr. Fiske.* A study of major works of orchestral repertoire and application of the principles of orchestral routine through public performance. Two periods of attendance weekly. Additional sectional rehearsals at option of director. The course may be repeated for credit. 1 unit. *TTh, 4:15.*

59a, 59b. Band. *Mr. Russell.* Concert and field work, brass ensemble work, joint performance with choral groups, opportunity for performance of student compositions and arrangements. Two rehearsals weekly. 1 unit. May be repeated for credit. *MW, 4:15.*

Men's and Women's Glee Clubs. *Mr. Russell.* The Glee Clubs offer opportunity for performance in a small extra-curricular ensemble, both on and off campus. New members admitted by tryout only, at the opening of the college year. All students are eligible. Normal schedule: two rehearsals weekly. No credit.

APPLIED MUSIC

Study in Applied Music is open to all students. It may be taken either with credit or without, subject to the following provisions:

General. All students must pass qualifying examinations to establish eligibility for credit. Credit of 1 unit per semester is given for one private lesson weekly, 2 units per semester for two private lessons weekly. All private

lessons are one-half hour in length. No credit is given for elementary study. No credit is given for work in Applied Music taken elsewhere.

Non-concentrators. Non-concentrators become eligible for a maximum of 4 units of Lower Division credit by passing the Lower Division qualifying examination. For more than 4 units of Lower Division credit they must take Elementary Theory (1) and Elementary Ear Training, Sight Singing, and Keyboard Harmony (2), or Materials of Music (4), either preceding or accompanying the additional work in Applied Music. Intermediate Theory (55) and Intermediate Ear Training, Sight Singing, and Keyboard Harmony (56) must precede or accompany all work for Upper Division credit.

Concentrators. Music 1 and 2 must precede or accompany all credit study by concentrators in music. Music 55 and 56 must precede or accompany all work for Upper Division credit. Concentrators in Applied Music are required to take two lessons per week in their major subject and to appear frequently in recitals.

Qualifying examinations. Students working for credit in Applied Music are enrolled in two categories: Lower Division (Music 11, 61), and Upper Division (Music 111, 161). The passing of a qualifying examination is required for entrance into either category. Normally the qualifying examination for Lower Division credit is given at the beginning of the Freshman year; that for Upper division credit is given at the end of the Sophomore year. Transfer students must take the qualifying examinations at the time they begin music study at Pomona. Printed information concerning the qualifying examinations may be obtained at the Music Department office.

Limit of credit toward degree. A total of not more than 16 units of applied Music may be counted toward the Bachelor of Arts degree, normally to comprise 8 units in Lower Division and 8 in Upper Division. Students not sufficiently advanced to qualify for Upper Division credit may count a total of not more than 12 units of Lower Division credit. All Applied Music study, whether for credit or not, is recorded on the student's college transcript.

11. Applied Music, Freshman level.
61. Applied Music, Sophomore level.
111. Applied Music, Junior level.
161. Applied Music, Senior level.

Voice, *Mrs. Briggs, Mr. Pilon.*
Organ, *Mr. Blanchard.*
Piano, *Mr. Dayton, Mr. Eller, Mrs. Briggs.*
Violin and Viola, *Mr. Fiske, Miss Smith.*
Violoncello, *Miss Jean.*
Harp, *Mrs. Remsen.*
Brass, *Mr. Tyler.*
Woodwinds, *Mr. Bloch, Mr. Harbaugh, Mr. Stevens.*

Lessons on other instruments may be arranged through the office of the Department.

FEES FOR INSTRUCTION	PER SEMESTER
For those paying regular tuition:	
One-half hour private lesson per week	$45.00
Each additional half-hour	40.00
For those carrying less than ten hours of college work, exclusive of work in applied music:	
One-half hour private lesson per week	60.00
Each additional half-hour	40.00
Class instruction	25.00

PRACTICE FEES	PER SEMESTER
Piano, one hour daily	6.00
Bridges Hall Organ (four manuals), one hour weekly	5.00
Two-manual Organ, one hour weekly	2.50
Bridges Auditorium Organ, Claremont College, (advanced students only) one hour weekly	15.00

Students in Music 1, 55, 107, 113, and 158 will be charged $6.00 per semester for the use of a practice piano unless they are already paying one of the above practice fees.

Oriental Affairs

A student concentrating in Oriental Affairs must take Oriental Affairs 51a and 51b. Twenty-four hours of upper division work are required. This must include one year's work in language. The other work should be selected from the following courses: Oriental Affairs 103, 104, 105, 111, 123, 124, 140, 160; Philosophy 126.

51. The Cultural Legacies of East Asia. *Mr. Ch'en.* A survey of the humanistic achievements of China and India, and their diffusion in other lands in East Asia. 3 units. Second semester. *MWF, 10.*

52a, 52b. First Year Chinese. *Mr. Wen.* A course for beginners in the Chinese language, with equal emphasis on the analysis of written characters and on actual use of the spoken language. 3 units. *TTh, 1:15.*

103a, 103b. History of China. *Mr. Ch'en.* General survey of China's cultural history. An effort will be made to interpret the complexities of the problem of present day China in the light of her ancient cultural heritage. 3 units. *MWF, 9.* (Omitted in 1955-56.)

104. Chinese Literature in Translation. *Mr. Ch'en.* A study of outstanding Chinese literary works in English translation with the aim of a deeper appreciation of Oriental life and thought. 3 units. Second semester. *MWF, 10.* (Omitted in 1955-56.)

105. Contemporary East Asia. *Mr. Ch'en.* The impact of Occidental cultures and peoples upon East Asia and Southeast Asia; the physical, intellectual, and moral resources of Oriental nations; the post-war problems of these countries. 3 units. First semester. *MWF, 10.* (Omitted in 1955-56.)

111. Japanese History and Culture. *Staff.* The evolution of Japanese social, economic, and political institutions since prehistoric times. Geographical foundations and the development of Japanese philosophy, literature and the fine arts. 3 units. Second semester. (Omitted in 1955-56.)

123. Eastern Asia in the Nineteenth Century. *Staff.* Traditional patterns of life and institutions in China and Japan, and to a lesser extent under the old regimes in Korea, Siberia, and Southeast Asia. The impact of Western imperialism and civilization upon those countries. 3 units. First semester. (Omitted in 1955-56.)

124. Eastern Asia in the Twentieth Century. *Staff.* Cultural and political revolutions which began or have been accentuated since the turn of the last century and which still are in progress will be studied. It is suggested but not required that this course be preceded by Oriental Affairs 123. 3 units. Second semester. (Omitted in 1955-56.)

140. History of Cultural Relations Between China and the Occident. *Mr. Ch'en.* A rapid survey of the religious, intellectual, literary and artistic relations and interchanges between China and the Western World from Greco-Roman times to the middle of the nineteenth century. 3 units. Second semester. *MWF, 9.*

151a, 151b. Second Year Chinese. *Mr. Wen.* An intermediate course open to those who have had 52a, 52b. 3 units. *TTh, 2:45.*

160. History of Far Eastern Diplomacy. *Staff.* Diplomatic relations of the Western Powers and Russia with China, Japan, Korea, the Philippines and Malaysia since 1800. 3 units. First semester. (Omitted in 1955-56.)

181a, 181b. Third Year Chinese. A continuation of 151a, 151b with exercises in reading classical (Wenli) Chinese prose and poetry. 3 units. Arranged.

195. Readings in Oriental Affairs. *Staff.* Prerequisite: one course in Oriental Affairs and permission of instructor. 2 or 3 units. Each semester. May be repeated for credit. Arranged.

Oriental Philosophy. For description see Philosophy 126.

AVAILABLE AT CLAREMONT GRADUATE SCHOOL

251a, 251b. Advanced Chinese.

Philosophy

Philosophy 57 is a general introduction to philosophy and is recommended for students who wish a general acquaintance with the subject. Either Philosophy 57, or two courses from the Philosophy 110, 111, 112 series, satisfies the distribution requirement.

Concentration: Students planning to concentrate in philosophy must take twenty-four units of upper division work, including four courses from the Philosophy 110, 111, 112, 113, 114 series. Philosophy 51 is strongly recommended for those concentrating in philosophy. Information concerning the Honors program in philosophy may be obtained from the Department. Those intending to do graduate work in philosophy should have a reading knowledge of French and German.

Joint Concentration: Philosophy and History. History 1 and 55 and Philosophy 57 are the lower division requirements. Students electing the joint concentration must choose from each of the four groups below at least the number of units specified.

Group I	(9 units):	History 140, 190, and one pro-seminar.
Group II	(6 units):	History 101 or 102 or 103a or 103b or 107a or 108.
Group III	(6 units):	History 107b or 109 or 110 or 113a or 113b.
Group IV	(15 units):	Four courses from the Philosophy 110, 111, 112, 113, 114 series, and one additional upper division course.

The comprehensive examination will consist of three parts: the general History examination, one subject field in History selected by the student, and the general History of Philosophy examination, which will take into consideration the additional upper division work done in Philosophy.

Joint Concentration: Philosophy and Literature. English 50 and Philosophy 57 are the lower division requirements. Students electing the joint concentration must choose from each of the four groups below at least the number of units specified.

Group I	(6 units):	English 153 or 154 or 155 or 156.
Group II	(9 units):	English 101 or 102 or 103 or 104.
Group III	(6 units):	English 105 or 115 or 192 or 193.
Group IV	(15 units):	Four courses from the Philosophy 110, 111, 112, 113, 114, series, and one additional upper division course.

Students in the joint concentration will be examined in both fields in the comprehensive examination at the end of the senior year.

Joint Concentration: Philosophy and Religion. Religion 1, 2 and 65 and Philosophy 57 are the lower division requirements. Among upper-division courses students must choose 15 units from each of the two groups below:

Group I	Religion 101, 103, 104, 160, and one additional upper-division course in Religion.
Group II	Philosophy 110, 111, 112, 113, 114 and one additional upper-division course in Philosophy.

51. Introduction to Logic. *Mr. Iredell.* A study of the elements of deductive and inductive reasoning with special emphasis upon scientific hypotheses, probability, and deductive and inductive fallacies. 3 units. Second semester. *MWF, 8.*

57a, 57b. Problems of Philosophy. *Mr. Iredell, Mr. Jones,* and *Mr. Sontag.* An introductory consideration of the meaning and method of philosophy, and an examination of the major problems with which philosophers deal, such as ethics, theory of knowledge and metaphysics. 3 units. Three sections, *MWF, 9, 10; TThS, 8.*

History of Philosophy series: Five semester courses, normally taken in sequence, designed to present the history of western philosophy through primary source readings, lectures and discussion.

110. Classical Philosophy. *Mr. Jones.* From the beginnings of philosophic thought to the start of the Christian period, including the Pre-Socratics, Plato, Aristotle, the Stoics and the Epicureans. 3 units. First semester. *MWF, 11.*

111. Medieval Philosophy. *Mr. Sontag.* From St. Augustine to Duns Scotus, including the Pseudo-Dionysius, Scotus Eriugena, Anselm, Bonaventure and Thomas Aquinas. 3 units. First semester. *TThS, 9.* (Offered in alternate years.)

112. Modern Philosophy. *Mr. Sontag.* From the Renaissance to Kant, including Bacon, Descartes, Leibniz, Spinoza, Locke, Berkeley and Hume. 3 units. Second semester. *MWF, 11.*

113. The Nineteenth Century. *Mr. Jones.* From Kant to Nietzsche, including Hegel, Schopenhauer, Mill, Comte, and Marx. 3 units. First semester. *MWF, 2:15.*

114. Contemporary Philosophy. *Mr. Iredell.* A study of the philosophic thought of the 20th Century, with special reference to the dominant ideas of the civilization of today. 3 units. Second semester. (Offered in alternate years; omitted in 1955-56. See Philosophy IV-160 offered in Scripps College.)

118. Metaphysics and Ontology. *Mr. Sontag.* A speculative inquiry into the fundamental questions of existence, with special attention to the problems of being and non-being, infinite and finite, God and the world, substance, unity,

and time. 3 units. First semester. *WF, 1:15* and arranged. (Offered in alternate years; omitted in 1955-56.)

124. Philosophy and Religion. *Mr. Sontag.* A study of the relationship of philosophy, theology and religion, including the questions of God's existence, God's nature, the nature of man and the claims of Christianity. 3 units. Second semester. *TThS, 9.* (Offered in alternate years; omitted in 1955-56.)

126. Oriental Philosophy. *Mr. Iredell.* A study of some of the important thinkers and schools of oriental philosophy, and a comparison of oriental and western philosophical views and cultural ideals. 3 units. First semester *MWF, 8.*

131. Social and Political Ethics. *Mr. Sontag.* A consideration of such central issues as right and wrong, good and evil, justice and injustice, together with the historical and contemporary solutions which have been proposed. 3 units. Second semester. *WF, 1:15* and arranged. (Offered in alternate years omitted in 1955-56.)

132. Political Philosophy. *Mr. Jones.* A study of such concepts as the state the individual, society, freedom, law, rights, and duty, emphasizing applications to currently competing systems. Second semester. *MWF, 2:15.* (Offered in alternate years.)

136. The Philosophy of Plato. *Mr. Sontag.* A systematic study of th dialogues of Plato, with emphasis upon uncovering the complete Platoni metaphysics, theory of knowledge, and ethics. 3 units. First semester. *WF, 1:1* and arranged. (Offered in alternate years.)

137. The Philosophy of Aristotle. *Mr. Sontag.* Designed to complemen Philosophy 136, through a study of the similarities and differences between th two major classical philosophers, including a study of Aristotle's criticism o Plato. 3 units. Second semester. *WF, 1:15* and arranged. (Offered in alternat years.)

138. The Philosophy of Kant. *Mr. Kaufman.* Reading and discussion o Kant's three *Critiques* and his work on religion, with the objective of gain ing a balanced view of Kant's philosophy. 3 units. Second semester. *TT 1:45-3:05.* (Offered in alternate years.)

140. Kierkegaard and Existentialism. *Mr. Sontag.* A study of the writing of Kierkegaard, considered in contrast with Nietzsche, Jaspers, Marcel, Heide ger and Sartre. 3 units. Second semester. *TThS, 9.* (Offered in alterna years.)

151. Some Representative Philosophies of Life. *Mr. Jones.* A study o four philosophical poets—Lucretius, Dante, Goethe, and T. S. Eliot. 3 unit Second semester. *MWF, 2:15.* (Offered in alternate years.)

53. Readings in the Philosophy of Science. *Mr. Sontag.* A study of selected contemporary views on philosophy of science and its crucial concepts, with an attempt to discover in what sense these involve traditional metaphysical questions. 3 units. Second semester. (Offered in alternate years; omitted in 1955-56.)

90. Senior Research Project. *Staff.* Independent reading and study on a topic of the student's choice, culminating in a major research paper. The course may be repeated for a total of six units. 3 units. Each semester. Arranged.

History of Political Thought. See Government 182.

Philosophy of Religion. See Religion 101.

Introduction to the Philosophy of Education. See Education 151.

AVAILABLE AT SCRIPPS COLLEGE

-54. Literary Interpretations of Philosophical Questions. *Mr. Barrett.* units. First semester. *MWF, 11.*

-57. Logic. *Mr. Barrett.* 3 units. Second semester. *MWF, 11.*

-158. Standards, Symbols and Values. *Mr. Barrett.* 3 units. First semester. *WF, 10.*

-160. Contemporary Philosophy. *Mr. Barrett.* 3 units. Second semester. *WF, 10.*

-161a. Philosophy of Art. *Mr. Greene.* 3 units. First semester. *TTh, 10* d arranged.

-161b. Philosophy of Criticism. *Mr. Greene.* 3 units. Second semester. *Th, 10* and arranged.

-55a, b. Philosophy of Religion. *Mr. Greene.* 3 units. *MWF, 10.*

AVAILABLE IN CLAREMONT MEN'S COLLEGE

ilosophy 110. Philosophy of Ideas. *Mr. Alamshah.* 3 units. First semester. *ThS, 9.*

AVAILABLE IN CLAREMONT GRADUATE SCHOOL

. Problems in Contemporary Political Theory. *Mr. Barrett.* 3 units. ond semester. *Th, 4-6.*

. Philosophy of Law. *Mr. Barrett.* 3 units. First semester. (Omitted in 5-56.)

. Selected Problems in the History of Philosophy: Hegel. *Mr. Merlan.* nits. Second semester. Arranged. (Offered in alternate years; omitted in 5-56.)

Physical Education

A student is required to take one unit of Physical Education Activities pe semester during his Freshman and Sophomore years, and one-half unit pe semester during his Junior and Senior years.

CONCENTRATION IN PHYSICAL EDUCATION

This program, followed by a year of graduate work, will qualify th student for the general credential with a major in physical education. It wil also qualify the student for further study in physical therapy, occupationa therapy, and recreation. Students interested in the three latter fields shoul confer with some member of the physical education department during th freshman year since slight changes in the following program may be neede to qualify for entrance to some of these fields.

In order to complete all required courses in the four year college perio students should take courses in the year in which they are suggested below

Freshman Year: Biology 1, English 1, Physical Education 5, Speech an Drama 52.

Sophomore Year: Zoology 37, Education 53, Psychology 51, Sociology 5 and 52.

Junior Year: Physical Education 123, 124, 129, 152, 118 or 119 (women) 191 (men), Psychology 107. Suggested: Music 53, Physical Education 224.

Senior Year: Physical Education 126, 154, 192 (men), 130 (women), 118 o 119 (women), Psychology 108.

In addition to the above, 6 units of physical education activities are require It is suggested that these be so selected as to give the individual opportuni for both technical skills and leadership training in a wide range of activitie

A reading knowledge of French or German is highly desirable for studen planning graduate research in physical education.

A non-credit Camp Counselor's training course for women is held throug out the year. The course aims to provide its members with experience and skil useful in summer camps, playgrounds, and other activities of communi recreation. (Given when there is sufficient demand.)

THEORY

5. Principles of Healthful Living. *Staff.* A consideration of factors th influence the physical and mental health of people as individuals and as mei bers of society. Includes methods for the promotion of the health of t individual with emphasis on special health problems of college students a young people generally. 3 units. First semester. *MWF, 10.*

118a-118b. (Women). Methods of Teaching Individual and Dual Spor *Staff.* Analysis of techniques and methods of presenting individual and du sports at the elementary and secondary school levels, in camp and playgrou

situations. Supervised teaching of the individual and dual sports in college classes. Prerequisite: minimum skill in the following physical education activities: archery, badminton, swimming, tennis. 2 units. *MW, 9* and arranged. (Given in alternate years.)

119a-119b. (Women). Methods of Teaching Team Sports. *Staff.* Analysis of techniques and methods of presenting team sports at the elementary and secondary school levels, in camp and playround situations. Supervised teaching of the team sports in college classes. Prerequisite: minimum skill in the following physical education activities: basketball, hockey, softball, speedball, volleyball. 2 units. *MW, 9.* (Given in alternate years; omitted 1955-56.)

123. Nature and Function of Play. *Miss Cawthorne.* The psychology of play and the function of play in growth, development, social adjustment and democracy. Special attention is given to the elementary school physical education program. First semester. 2 units. *TTh, 8.*

124. Community Recreation. *Miss Cawthorne.* The history, organization and administration of municipal and private recreation (including camping) in the United States. Methods of conducting a varied activity program. Limited to Juniors and Seniors. Second semester. 2 units. *TTh, 8.*

126. Community Hygiene. *Staff.* A survey of the field of public health and sanitation. A summary of public health agencies, extensive study of public and private water supplies, disposal of wastes, control of food and dairy products, and mental, industrial and school hygiene. Second semester. 3 units. *MWF, 10.*

129. Kinesiology. *Miss Cawthorne.* An analysis of joint and muscular mechanisms, and their relation to problems of bodily development and efficiency. Prerequisite, Zoology 37. 3 units. First semester. *MWF, 8.*

130a, 130b. The History and Teaching of Dance. *Miss Burt.* Analysis of the problems and techniques of teaching rhythms at the elementary or high school level. First semester: historical background of folk and contemporary dance and teaching elementary rhythms and folk dance. Second semester: advanced technique and composition and teaching contemporary dance at the secondary level. One hour lecture, two hours laboratory, each semester. 3 units. Lecture *M, 10;* laboratory *WF, 10.*

152. Physical Deviations. *Miss Cawthorne.* Study of body mechanics and the causes, prevention, and correction of physical defects. Methods of examination, prescription of exercises. Prerequisite, 129. 3 units. Second semester. *MW, 8;* and laboratory *F, 8-10.*

154. Principles of Physical Education. *Mr. Malan.* A study of the philosophy of Physical Education as revealed by a survey of basic guiding principles. Includes a critical analysis of current practices in the field. Limited to juniors and seniors majoring in Physical Education and Education. 3 units. Second semester. *MWF, 11.* (Omitted 1955-56.)

191a, 191b. (Men). Methods of Teaching the Major Sports. *Staff.* A study of the theories and techniques in teaching and coaching the major sports of the school physical education program. Limited to junior and senior majors and minors in Physical Education and Education. Others must have permission of department. 2 units. *TTh, 1:15* and arranged.

192a, 192b. (Men). Methods of Teaching Minor Sports. *Mr. Strehle.* A study of the theories and techniques in teaching the minor sports and other physical education activities. Limited to junior and senior majors and minors in Physical Education and Education. Others must have permission of department. 2 units. *M, 2:15* and arranged.

224. Organization and Administration of Physical Education. *Mr. Bell.* Required for teaching credential. *(Available at the Claremont Graduate School during Summer Session when there is sufficient demand.)*

MEN'S ACTIVITIES

Students engage in programs of physical education activities selected according to individual needs as determined by medical and physical examinations and tests. Complete freedom in the choice of activities is permitted only to men who maintain acceptable standards in health, physical development, and physical efficiency. Among the minimum requirements of the Department are good posture, ability to swim, elementary skill in self defense, proficiency in fundamental activities, reasonable skill in at least one individual sport and in one team game.

The following physical education activities are carried on under supervision of the Department: Archery, badminton, baseball, basketball, boxing, corrective exercises, cross country running, dancing, fencing, football, golf, gymnastics, life saving, soccer, softball, swimming and diving, tennis, touch football, track and field athletics, tumbling, volleyball, water polo, weight lifting, and wrestling. Co-educational classes are sponsored also with the Women's Department. Fees as indicated are required each semester of those who select archery ($1.50), fencing ($7.00), golf, ($10.00).

The Department conducts a competitive intramural program including sports in season.

The college program of intercollegiate athletics is an integral part of the program of Physical Education. No student is permitted to participate in the more strenuous forms of competition without a certificate from the College Physician indicating that the individual is physically fit for such participation.

The student obtains credit in the required courses listed below by participation in activities selected in accordance with the principles set forth in the preceding paragraphs.

1a-1b. Physical Education Activities. *The Staff.* Required, Freshman year. ½ unit. Arranged.

2a-2b. Physical Education Activities. *The Staff.* Required of Freshmen not taking Military Science. ½ unit. Arranged.

53a-53b. Physical Education Activities. *The Staff.* Required, Sophomore year. ½ unit. Arranged.

54a-54b. Physical Education Activities. *The Staff.* Required of Sophomores not taking Military Science. ½ unit. Arranged.

105a-105b. Physical Education Activities. *The Staff.* Required, Junior year. ½ unit. Arranged.

107a-107b. Physical Education Activities. *The Staff.* Required, Senior year. ½ unit. Arranged.

WOMEN'S ACTIVITIES

Medical and physical examination is given all entering students with subsequent posture tests. Physical activities are allowed or prescribed as the result of these examinations. Participation in a Fundamental Activity is required one semester of the Freshman year. Students may have freedom of election in other activities in so far as medical and physical examinations warrant, but must include by the end of the Sophomore year one individual sport and one semester of some form of dancing. The passing of a swimming achievement test is required for graduation. It should be completed by the end of the Sophomore year.

Activity fees are charged for badminton, and archery ($1.50 semester), golf ($10 semester), fencing ($7 semester), social dancing ($10 semester).

Six units of Physical Education Activities are required for graduation. One-half unit is credited for Fundamentals, which includes courses organized to teach the basic fundamentals of physical activity. The remaining 5½ units may be earned by participation in other activities.

Freshmen and Sophomores must arrange their activities so that classes are taken on M, T, W, and Th.

Fundamentals: contemporary dance, ballet, individual gymnastics, group gymnastics, body mechanics.

Team Sports: basketball, softball, speedball, hockey, volleyball.

Individual Sports: archery, badminton, tennis, golf, swimming, fencing.

Dancing: contemporary folk and square, social, ballet.

Recreational Games: table tennis, paddle tennis, etc.

1a-11b. Fundamentals and Other Activities. *The Staff.* Required, Freshman year. ½ unit. Arranged.

2a-12b. Sports or Dancing. *The Staff.* Required, Freshman year. ½ unit. Arranged.

3a-63b. Physical Education Activities. *The Staff.* Required, Sophomore year. ½ unit. Arranged.

64a-64b. Physical Education Activities. *The Staff.* Required, Sophomore year. ½ unit. Arranged.

115a-115b. Physical Education Activities. *The Staff.* Required, Junior year. ½ unit. Arranged.

117a-117b. Physical Education Activities. *The Staff.* Required, Senior year. ½ unit. Arranged.

Physics

The Lower division preparation for a concentration includes Physics 51 and 52, Mathematics 65 and Chemistry 1. The minimum concentration includes 25 units of upper division physics, and Mathematics 102 and 151. Additional work in chemistry, engineering drawing and mathematics is recommended. The minimum concentration will normally be elected by those who plan to use physics in combination with training in some other field, and who do not plan to do graduate work in physics.

A student who plans to do graduate work in physics will normally add to the above courses Physics 191 and not less than six units selected from Mathematics 118, 119, 152 and 210. He is expected to establish a good foundation in chemistry and to acquire a reading knowledge of German.

All students concentrating in physics will consult with the physics staff about their concentration examination during the first week of their senior year.

1a, 1b. Introduction to Physical Science. *Mr. Fryer.* A non mathematical course intended for those wishing to obtain a knowledge of physics and related topics from the other physical sciences. The historical aspects of physical science with emphasis upon the method of science and the persons who have contributed to the present understanding. Illustrated by numerous experimental demonstrations and films. Fee $5.00 each semester. 3 units. *MWF, 10.*

51a, 51b. General Physics. *Mr. Fowler.* The phenomena and laws of mechanics, heat, sound, light, electricity and magnetism, and an introduction to atomic physics. This course, together with Physics 52, is planned especially for those students who expect to continue studies in physics, chemistry, engineering or medicine. Prerequisite: Mathematics 1. Open to freshmen only by permission of the Department Staff. 3 units. *TThS, 8.*

52a, 52b. General Physics Laboratory. *Mr. Henke and the Staff.* Quantitative laboratory problems selected from the subjects treated in Physics 51. Physics 51 or equivalent must accompany or precede this course. Laboratory fee $3.00. 1 unit. *MTW* or *Th, 1:15-4:05.*

110. Heat and Thermodynamics. *Mr. Henke.* The principles of thermodynamics and kinetic theory. The first and second laws of thermodynamics and their application will be emphasized. Prerequisites: Physics 51, Mathematics 65. 3 units. First semester. *MWF, 11.*

113a, 113b. Mechanics. *Mr. Henke.* Kinematics, dynamics, and statics of particles and rigid bodies with applications to problems of physics and engineering. Prerequisite: Physics 51, Mathematics 65. 3 units. *TThS, 9.*

141a, 141b. Electricity and Magnetism. *Mr. Miller.* The fundamental laws of electrostatics and electrodynamics, electrical circuit theory, thermionics, and introductory electromagnetic field theory. Prerequisites: Physics 51, Mathematics 151 preceding or accompanying the course. 3 units. *TThS, 8.*

142a, 142b. Electrical Measurements. Laboratory. *Mr. Miller.* The first semester is concerned with direct-current measurements and the use of standard bridge circuits. The second semester emphasizes alternating-current circuits and vacuum tube devices commonly employed in physical and engineering laboratories. Laboratory fee $4.00. 1 unit. *T, 1:15-4:05.*

153. Optics. *Mr. Henke.* Theory and applications of physical optics with emphasis upon the phenomena of interference, diffraction and polarization of light. Prerequisite: Physics 51, Mathematics 65. 3 units. First semester. *MWF, 9.*

154. Optical Measurements. Laboratory. *Mr. Fowler.* Experimental study of phenomena of geometrical and physical optics. Prerequisite: approval of the instructor. Laboratory fee $4.00. 1 unit. First semester *Th, 1:15-4:05.*

155. Atomic Structure. *Mr. Henke.* Modern theories of atomic and nuclear structure, elementary particles, and radiations. Prerequisites: Physics 51, Mathematics 65. 3 units. Second semester. *MWF, 9.*

156. Advanced Physics Laboratory. *Mr. Fryer.* Independent experimental study of selected subjects in modern physics. Prerequisite: approval of the instructor. Laboratory fee $4.00. 1 unit. Second semester. *Th, 1:15-4:05.*

191a, 191b. Mathematical Physics. *Mr. Fowler.* Application of mathematics to selected subjects in classical and quantum physics. Prerequisites: Physics 51, Mathematics 151 and approval of the instructor. 3 units. *TThS, 10.*

Psychology

Students concentrating in psychology are required to take psychology 51, and 24 units of upper division courses including psychology 109 and 194. As a part of the latter requirement, 6 units may be offered from the following courses: Biology 112, Zoology 137, Mathematics 194, Sociology 152. Students should note that some of these courses are not offered every year. Training in zoology, physics, chemistry, French and German is recommended for students planning to do graduate work in psychology.

Psychology 51b is prerequisite to all further work in the department with the exception of Psychology 102. Child Psychology may be taken concurrently with 51b.

51a, 51b. Introduction to Psychology. *Staff.* Fundamental facts and principles of consciousness and behavior. The relation of the nervous system to mental processes and action. Practical applications in various fields. 3 units. Three sections, *MWF, 11,* and *TThS, 9, 10.* Section of 51a will be offered second semester. *MWF, 11,* and of 51b, first semester, *TThS, 9.*

55a, b. Psychology with Application to Business and Industry. *Mr. Greenspoon.* Discussion of principles of psychology with application to business, industry and government. No prerequisites. Students completing course may take advanced courses in psychology with permission of instructor. 3 units. *TThS, 10.* (Offered alternate years, omitted 1956-57).

102. Psychological Statistics. *Mr. Austin.* Correlation methods, probability, chi square, tests of significance. Prerequisite: Psychology 51 or permission of instructor. 3 units. First semester. *TTh, 1:15-3:05.*

103. Individual Differences. *Mr. Ellis.* A study of the nature and extent of individual differences and their causes as determined by objective methods. Applications in various fields. 3 units. First semester. *MWF, 9.*

107. Educational Psychology. *Mr. Ellis.* Practical applications of psychology to education. 3 units. Second semester. *MWF, 9.*

108. Child Psychology. *Mr. Faust.* A survey of development and behavior of the young child. 3 units. First semester, *TThS, 10;* second semester, *MWF, 11.*

109. Introduction to Psychological Methods. *Mr. Greenspoon.* Discussion and demonstration of methods of studying psychological problems and evaluating data. Laboratory experiments. Laboratory fee $1.50. Prerequisite: Psychology 51 or permission of instructor. 3 units. First semester. *M, 3:15; WF, 1:15-3:05.*

115. Feelings and Emotions. *Mr. Faust.* The nature, development and functions of emotions. 3 units. First semester. *MWF, 8.*

117. Physiological Psychology. *Mr. Faust.* Physiological and neural aspects of psychological functions. Permission of instructor required. 3 units. First semester. *MWF, 8.* (Omitted in 1955-56.)

131. Abnormal Psychology. *Mr. Greenspoon.* Problems of maladjustment; factors contributing to mental disorders; methods of diagnosis and therapy. 3 units. First semester. *MWF, 10.*

137. Theories of Personality. *Mr. Greenspoon.* A critical examination and evaluation of current theories of personality. Prerequisite: Psychology 131. 3 units. Second semester. *MWF, 10.*

154. Social Psychology. *Mr. Greenspoon.* Examination of the psychological factors of group behavior, with special emphasis on language behavior, intra-group and inter-group communication. 3 units. Second semester. *TThS. 9.*

156. Mental Tests. *Mr. Ellis.* Survey of principles and methods of measuring intelligence. 3 units. First semester. *TThS, 9.*

168. Psychology of Adolescence. *Mr. Faust.* The study of later childhood and adolescence. Prerequisites: Psychology 108. 3 units. Second semester. *TThS, 8.*

170. Theories of Learning. Examination and evaluation of theories of learning, including current research and application of learning principles to human behavior. 3 units. Prerequisite: 12 units of psychology. First semester. *TThS, 10.* (Omitted in 1955-56.)

172. Systems of Psychology. *Mr. Faust.* A discussion of contemporary systems of psychology with special emphasis placed upon Behaviorism, Gestalt Psychology, and Psychoanalysis. 3 units. (Omitted in 1955-56.)

188. Experimental Psychology. Analysis of the design and methodology of recent psychological experiments. Students will perform illustrative experiments. Laboratory fee $1.50. 3 units. Second semester. *M, 3:15, WF, 1:15-3:05.* Prerequisites: 12 units of psychology including Psychology 109 and permission of instructor. (Omitted 1955-56.)

192. Reading and Research. *Staff.* Individual work on special topics. May be repeated for credit. Prerequisite: permission of instructor. Either semester. 1-3 units. Arranged.

194. Senior Reading Course. *Mr. Ellis.* A course designed to supplement and integrate the different courses offered to meet the concentration requirement in psychology and to prepare students for the comprehensive examination. Required of seniors who are concentrating in psychology. 2-4 units. Either semester. *T, 3:15* and arranged.

AVAILABLE AT SCRIPPS COLLEGE

IV-110. Child Development. *Mrs. Jones.* Prerequisite, Elementary Psychology. Year course. *MWF, 11.*

IV-112. Child Study in the Nursery School. *Mrs. Jones.* Prerequisite Elementary Psychology and IV-110. Year course. *MW, 2:15* and arranged hours in the Nursery School. Registration by permission of the instructor.

IV-114. Nursery School Procedure. *Mrs. Jones.* Prerequisite, IV-112. Year course. *MW, 3:15-4:05* and arranged hours in the Nursery School. Registration by permission of the instructor.

V-119. Human Psychobiology. *Mr. Caster.* Registration by permission of instructor. Year course. *TThS, 8.*

Religion

Students planning to concentrate in religion must take the following survey courses or their equivalents: Religion 1, 2 and 65; History 1; and either Philosophy 57 or 110 and one other upper division course in the history of philosophy. Twenty-four hours of upper division work, of which at least eighteen must be in the field of religion at Pomona, are required. Six units of upper division work may be taken in one of the related fields of classics, English, education, government, history, philosophy, psychology, and sociology.

Concentration in Religion and Philosophy: See Philosophy.

1. The Religion of the Old Testament. *Staff.* An introduction to the developing beliefs and practices of Hebrew religion as set forth in the literature of the Old Testament. 3 units. First semester. Four sections. *MWF, 8, 9; TThS, 8, 9.*

2. The Religion of the New Testament. *Staff.* An introduction to the origin and growth of the early Christian message as set forth in the literature of the New Testament, with special attention to Jesus and Paul. 3 units. Second semester. Four sections. *MWF, 8, 9; TThS, 8, 9.*

65a, 65b. Great Personalities in Christian History. *Mr. von Rohr.* The historic development of Christian beliefs approached through the lives and thought of some of Christianity's outstanding representatives. First semester: early Christianity and the Middle Ages. Second semester: Reformation and post-Reformation developments. 3 units. *MWF, 8.*

101. Philosophy of Religion. *Mr. Kaufman.* An analysis of the human situation, its religious problems (anxiety, despair, love, hate, personal dependence, etc.), and several answers to these problems, such as existentialism, mysticism, rationalism, humanism, and Christian faith. 3 units. First semester. *TTh, 1:45-3:05.* (Alternates with 103.)

103. Interpretation of Christian Ideas. *Mr. Kaufman.* An analysis of the Christian faith with consideration of such problems as the nature of God, Jesus Christ, man, sin, salvation, predestination, free will, and the Church. 3 units. First semester. *TTh, 1:45-3:05.* (Alternates with 101. Omitted in 1955-56.)

104. Contemporary Religious Thought. *Mr. Kaufman.* Reading and discussion of European and American writers reflecting varying interpretations of the meaning of the Christian message for the modern world and its impact on contemporary thought. 3 units. Second semester. *MWF, 11.*

141. Christian Ethics. *Mr. Kaufman.* An analysis of ethical problems from a Christian perspective, showing the relation of Christian ethics both to Christian thought and to concrete personal and social experience. 3 units. First semester. *MWF, 11.*

142. Christianity and Modern Culture. *Mr. Kaufman.* A critique, from a Christian perspective, of sociological, political, psychological, literary, and philosophical analyses of society, with consideration given to the roles of both the individual Christian and the Church. 3 units. Second semester. *TTh, 1:45-3:05.* (Offered in alternate years. Omitted in 1955-56.)

159. Religion in Early American Culture. *Mr. von Rohr.* The role of religion in the development of the American nation to the time of the Civil War; the origins and growth of American religious thought; the relation of religion to the emergence of some of the major characteristics of our national life. 3 units. First semester. *MWF, 9.*

160. Catholicism and Protestantism. *Mr. von Rohr.* A comparative study of the beliefs and practices of Roman Catholicism and those of Protestantism in both its original and contemporary forms. 3 units. Second semester. *MWF, 9.*

191a, 191b. Advanced Readings in Religion. *Staff.* An independent reading program for upper division students. Admission by permission of instructor. 3 units. Arranged.

AVAILABLE AT SCRIPPS COLLEGE

IV-140a, b. The Religions of the World. *Mr. Braden. TTh, 8* and arranged hour.

Romance Languages and Literatures

Concentrators: A major in one Romance language is required to take a minimum of 24 units in courses numbered over 100. A major in Romance languages, 36 units.

French major: Prerequisite 81b; required 120, 141.

Spanish major: Prerequisite 91b; required 120, 151.

Romance Languages major: Prerequisite French 81b, Spanish 91b; required: French 120, 141; Spanish 120, 151.

Latin: Although not required, a knowledge of Latin is recommended, particularly for students who contemplate graduate work.

Final senior examinations: Every concentrator in the department is required to take general oral and written examinations in the appropriate Romance language as follows:

1) A one hour oral examination to test the student's command of the language.

2) A three hour essay examination on some phase of the culture to test the student's grasp of its civilization and his ability to write correct and effective language.

3) A three hour written general examination on the literature.

Extra-curricular activities: In addition to his classwork, the student may supplement his training by use of the Department's *Language Laboratory* facilities and participation in the Language Clubs. Attention is called to *La Maison Française* and *La Casa Hispánica* where students may elect to reside and enjoy the benefit of native speaking environment. Open to women only.

Language Placement: All students who have had foreign language training in Romance languages and who consider taking further work in the same language are required to consult the Department to determine at what level they should be placed.

Attention is called to the fact that the intermediate courses in French and Spanish meet lower Division Requirement 6.

FRENCH

Courses for concentration: Any courses numbered over 100. Prerequisite French 81b or its equivalent. Of the courses on the literature, French 120 must be taken first.

1a-1b. Elementary. *Mrs. Copple, Mr. Leggewie, Mr. Young.* Essentials of grammar; written and conversational exercises. A cultural approach based on selected reading material. 3 units. Three sections. *MWF, 10; TThS, 10; MWF, 1:15.*

51a-51b. Intermediate. *Mrs. Copple, Mr. d'Estournelles.* Second year college French. Intensive class reading of selected cultural and literary texts; outside reading related to individual interests. Grammar review and conversational practice. 3 units. Two sections. *MWF, 10; TThS, 10.*

61a, 61b. Intermediate Conversation. *Mrs. Copple.* A course in spoken French stressing fluency and accuracy. Dialogues, reports and practice work in Language laboratory. Consent of the instructor required. 2 units. *TTh, 1:15.*

81a-81b. Advanced. *Mr. Leggewie.* Conducted in French as far as possible. Intensive grammar review; extensive class and outside readings; oral and written reports in French. Prerequisite 51b or the equivalent. 3 units. *TThS, 9.*

ADVANCED COURSES

French 81b or its equivalent is required for admission to all advanced courses, except French 130.

120a-120b. Survey of French Literature and Civilization. *Mr. d'Estournelles.* A general outline course in the history of French literature from its origins to modern times. 3 units. *TTh, 1:15-2:30.*

124a, 124b. The Novel of the Nineteenth Century. *Mr. Leggewie.* Intensive study of the novel and its evolution as a reflection of the intellectual, historical and literary movements of the century. First semester, Romanticism; second semester, Realism. (Omitted 1955-56.)

127. Modern French Theatre. *Mrs. Copple.* Study of representative playwrights of today with special emphasis on Claudel, Giraudoux, Sartre and Camus. 3 units. Second semester. *MWF, 9.*

141. Advanced Conversation and Composition. *Mrs. Copple.* A course designed to develop skill and accuracy in literary composition and oral expression. Required of majors. 3 units. First semester. *MWF, 11.*

153a, 153b. Literature of the Seventeenth Century. *Mrs. Copple.* Intensive study of the great masters of the French classical age: Corneille, Molière, Racine. Lesser study of Descartes, Pascal, La Rochefoucauld and others. 3 units. (Omitted 1955-56.)

156. Literature of the Eighteenth Century. *Mr. Leggewie.* A study of the Age of Enlightenment with particular emphasis on Montesquieu, Diderot, Voltaire and Rousseau. (Omitted 1955-56.)

190. Seminar in French Literature. *Staff.* A course open to seniors to supplement their preparation in French literature. Lectures, readings and papers. 3 units. Second semester. Arranged.

ITALIAN

1a-1b. Elementary Italian. *Mr. Maggipinto.* Essentials of grammar; written and conversational exercises. A cultural approach based on selected reading material. 3 units. *MWF, 10.*

81a-81b. Advanced Italian. *Mr. Maggipinto.* Conducted in Italian as far as possible. Extensive class and outside readings to serve as an introduction to Italian civilization. 3 units. *MWF, 10.* (Omitted 1955-56.)

SPANISH

Courses for concentration: Any courses numbered over 100. Prerequisite Spanish 91b or its equivalent. Of the courses on the literature, Spanish 120 must be taken first.

11a-11b. Elementary. *Mr. Maggipinto.* Essentials of grammar; written and conversational exercises. A cultural approach based on selected reading material. 3 units. *MWF, 11.*

71a-71b. Intermediate. *Mr. Young.* Second year college Spanish. Intensive reading of selected cultural and literary texts; outside reading related to individual interests. Grammar review and conversational practice. 3 units. *TThS, 9.*

81a, 81b. Intermediate Conversation. *Mr. Young.* A course in spoken Spanish stressing fluency and accuracy. Dialogues, reports and practice work in Language laboratory. Must have the consent of the instructor. 2 units. *TTh, 1:15.*

91a-91b. Advanced. *Mr. Maggipinto.* Conducted in Spanish as far as possible. Intensive grammar review; extensive class and outside reading; oral and written reports in Spanish. Prerequisite 71b or the equivalent. 3 units. *MWF, 9.*

ADVANCED COURSES

Spanish 91b or its equivalent is required for admission to all advanced courses, except Spanish 170.

120a-120b. Survey of Spanish Literature. *Mr. Maggipinto.* A general outline course in the history of Spanish literature from its origins to modern times. 3 units. *TTh, 1:15.*

151. Advanced Conversation and Composition. *Mr. Young.* A course designed to develop skill and accuracy in literary composition and oral expression. Required of majors. 3 units. (Omitted, 1955-56.)

180a, 180b. The Golden Age. *Mr. Young.* The Renaissance, the Baroque, and the Neo-Classic periods in Spanish literature. Main topics: first semester, development of Spanish literary forms, chivalry, humanism, the picaresque, and the Mystics; second semester, balladry and the theatre. 3 units. (Omitted 1955-56.)

190a, 190b. Contemporary Spanish Literature. *Mr. Young.* The Generation of '98, pre-Civil War figures, and significant authors of the present day. Main writers: Unamuno, Baroja, Valle-Inclán, Benavente, Ortega y Gasset, Juan Ramón Jiménez, Pedro Salinas, García Lorca. 3 units. *WF, 1:15-2:30.*

AVAILABLE AT SCRIPPS COLLEGE

I-173. Mexican Literature. *Mrs. Lamb.* 3 units. First semester. *MWF, 11.*

I-174. The Spanish-American Novel. *Mrs. Lamb.* 3 units. Second semester. *MWF, 11.*

FRENCH AND SPANISH LITERATURE IN TRANSLATION

French 130. The Contemporary Novel. *Mr. Leggewie.* Study of such outstanding writers as Gide, Mauriac, Proust, Sartre and Camus. Lectures in English, readings in original or translation. 3 units. First semester. *MWF, 9.*

Spanish 170. Cervantes. *Mr. Young.* A study of the life and works of Cervantes with special attention to Don Quixote and its relation to European Literature. Lectures in English, readings in original or translation. (Omitted 1955-56.)

* * *

In the Romance field the graduate work offered under the Claremont Graduate School centers on the following periods of the literature: French: 17th Century, 18th Century, 19th Century, Contemporary Period. Spanish: Pre-Golden Age, Golden Age, Spanish and Spanish American of 19th Century, and Contemporary Period.

Russian

1a-1b. Elementary Russian. *Mr. Ein.* Essentials of grammar, pronunciation, constant exercises in reading and writing. 3 units. *TThS, 9.*

51a-51b. Intermediate Russian. *Mr. Ein.* More advanced study of Russian grammar. Daily reading, writing, translating and practice in Russian conversation. 3 units. *TThS, 10.*

101a, 101b. Readings in Selected Russian Literature. *Mr. Ein.* Prerequisite: 51a and 51b or equivalent. 1 unit. May be repeated for credit. Arranged.

Social Institutions

For students whose needs and interests would be better served by a program of study somewhat broader than in a departmental major, Pomona offers a concentration in Modern Social Institutions drawing upon the courses of several departments. The program is especially suitable for pre-divinity students and those planning to become social studies teachers in secondary schools.

Administered by the Department of Government, the concentration is organized around five core courses and, in addition, an intraconcentration major and minor selected from three areas: American social institutions, comparative social institutions, and modern social thought.

The five core courses are History 55ab (History of the United States), Psychology 154 (Social Psychology), Sociology 152 (Social Control), Religion 142 (Christianity and Modern Culture) and Government 180 (Social Institutions and Social Theory). The last named course, a seminar, is normally taken in the senior year and culminates in a paper which is counted as a part of the comprehensive examination.

From the following courses concentrators must take at least twelve units in one area and six in another (normally the senior paper is written in the area of major emphasis): I. *American Social Institutions.* Economics 110 (Industrial Organization and Business Policy), Economics 111 (Labor Economics), Education 105 (History of Education—the United States), Government 157 (Parties and Pressure Groups), Religion 159 (Religion in Early American Culture), Sociology 112 (The American Community). II. *Comparative Social Institutions.* Economics 195 (Comparative Economic Systems), Education 104 (History of Education—Foreign and Comparative), Government 125 (Modern Democracies), Government 126 (Modern Totalitarianism: USSR), Religion 160 (Catholicism and Protestantism), Sociology 102 (Cultural Anthropology). III. *Modern Social Thought.* Education 151 (Philosophy of Education), Government 245 (American Political Thought), Government 182 (Political Theory: Normative), History 117ab (Intellectual History of Europe), Sociology 153 (Social Movements).

Sociology

Requirements for concentration: Sociology 51, normally taken in the Sophomore year, and 24 units of upper division courses in sociology. However, 3 of these 24 units may be chosen from the following: Economics 111, Government 157, Psychology 154.

Recommended courses: Students concentrating in sociology will find it helpful to take as many of the following courses as possible: Economics 51 and 52, Economics 57; Government 51 and 52; or Economics 51 and Government 52; History 1; Psychology 51.

Lower Division Requirements: In sociology the requirement can be met in two ways: (a) by 51 and 52, which constitute an integrated year course, or (b) by 51 and any *two* higher numbered courses.

51. Introductory Sociology. *Staff.* The basic characteristics and dynamics of society, culture, and personality as related to man's group behavior. Not open to Freshmen. 3 units. First semester. Four sections. *MWF, 11, 1:15; TThS, 9, 10.*

52. Social Problems. *Mr. Scaff.* A survey of the major problems of present day society related to individual, family, community, and world disorganization. Intended to follow Sociology 51 for students who plan to take only one year of sociology. Not recommended for students who intend to take several specialized courses such as Race Relations, Criminology, etc. 3 units. Second semester. Two sections. *TThS, 9, 10.*

102. Cultural Anthropology. *Mr. Baber.* The emergence of man and the development of his essential culture patterns. A comparison of human behavior in widely separated primitive cultures. Prerequisite: Sociology 51. 3 units. First semester. *MWF, 9.* (Offered in alternate years; omitted in 1955-56.)

106. Social Welfare. *Mr. Scaff.* A survey of the various fields of social work and the major techniques and theories involved. Visits to selected agencies. Prerequisite: Sociology 51. 3 units. Second semester, *MWF, 8.*

107. Criminology and Penology. *Mr. Baber.* Types of criminal behavior. The making of the criminal. Methods of dealing with criminals. Preventive measures. Prerequisite: Sociology 51, or *two* of the following: Economics 51, Government 51, History 1. 3 units. Second semester. Two sections. *MWF 9, 11.*

109. Marriage and the Family. *Mr. Baber.* Adjustment of marriage and family patterns to our rapidly changing culture. Analysis of the factors promoting family disorganization. Prerequisite: Junior or Senior standing. 3 units. First semester. *MWF, 9.*

110. Race Relations. *Mr. Baber.* Prejudice and conflict patterns, with emphasis upon American experience with Negroes, Mexicans, and Orientals. Prerequisite: Sociology 51, or *two* of the following: Economics 51, Government 51, History 1. 3 units. Second semester. *WF, 2:15-3:30.* (Offered in alternate years. Omitted in 1955-56.)

111. World Population and Migration Problems. *Mr. Scaff.* An analysis of the basic characteristics of the population of the United States and of major areas of the world. The implications of population change for economic and political adjustments, international relations, and the development of world resources. Prerequisite: Sociology 51, or sufficient background in the other social sciences to satisfy the instructor. 3 units. First semester. (Omitted in 1955-56.)

112. The American Community. *Mr. Scaff.* An analysis of modern American urban communities in contrast with rural communities. Supervised observation and field study in the local area. Prerequisite: Sociology 51. 3 units. First semester. *MWF, 8.*

152. Social Control. *Mr. Baber.* Society's means of creating and maintaining its social patterns, through law, public opinion, propaganda, education, religion, rewards, etc. Open to Juniors and Seniors only. Prerequisite, Sociology 51. 3 units. Second semester. *WF, 2:15-3:30.*

153. Social Movements. *Mr. Scaff.* Emphasis on the ideology of specific movements, such as, Marxism, Socialism, Nazism, Communism, and Cooperation. Prerequisites: Sociology 51, or two of the following: Economics 51, Government 51, History 1. Open to Juniors and Seniors only. 3 units. First semester. *MWF, 10.*

154. Twentieth Century Sociology. *Mr. Scaff.* The rise of modern sociology, with emphasis on the major contributions from Europe and America to sociological theory since 1900. Prerequisite: Sociology 51. Open to Juniors and Seniors only. 3 units. Second semester. *MWF, 10.*

191a-191b. Social Investigation. *Mr. Baber.* Observation and analysis of the work of various social agencies and programs. Individual projects for some; supervised field experience (in selected agencies) for others, according to the interests and needs of the student. Open only to seniors with written permission of the instructor. 3 units. Arranged.

Speech and Drama

Requirements for concentration in speech and drama:

Lower Division Core Requirements: Speech and Drama 32, 51 (at least two units), 57, 61a, and 61b, in fulfillment of which requirements transfer students may offer equivalent courses pursued at other colleges.

Upper Division Requirements with Emphasis on Speech: Speech and Drama 102, 105, 136, 162, or Scripps II-150a or 150b; English 155a, 155b or Scripps I-116a, 116b. Six additional units will be chosen from upper division courses in the Speech and Drama Department.

Upper Division Requirements with Emphasis on Drama: Speech and Drama 160a, 160b; Scripps II-150a, 150b; English 155a, 155b or Scripps I-116a, 116b. At least six units will be chosen from: Classics 160a, 160b; Speech and Drama 102, 105, 112a-112b; Scripps I-106, 107; Scripps II-149, 151a, 151b.

In addition to the required work in the speech and drama concentration, the following offerings are suggested as suitable electives, the choice among them depending on the student's particular interests: *Lower Division:* Art 51a-b; English 57, 63, 64; Music 53 a-b; Philosophy 51. *Upper Division:* Comparative Literature 181a, 181b; English 102, 154; French 127; Philosophy 137, 151; Physical Education 130a, 130b; Psychology 154. Fluency in at least one modern foreign language (preferably French) is recommended.

In the comprehensive examination the books on a supplementary reading list will be included.

In addition to the comprehensive examination, a demonstration of creative ability in the field of concentration is required.

32. Fundamentals of Speech. *Mr. Cornell.* A course to develop skill in effective oral communication. Emphasis is given to training in the analysis, support, development of subject material, appropriate use of language, effective vocal and bodily expressiveness. 3 units. First semester. *MWF, 11, TThS, 8.*

51a, 51b. Play Production. *Staff.* Directed study in play production, both in acting and in stagecraft. One unit of credit granted for either fifty hours of rehearsal time under direction, or fifty hours of technical work under direction, or for fifty hours of rehearsal and technical work combined. Not more than two units of credit may be granted in any one year. A total of eight units of credit may be applied toward graduation.

57. Voice and Phonetics. *Mr. Cornell.* Study of the physical, physiological, psychological attributes of speech, phonetics and phonetic transcription. Practice to improve the speaking voice. Prerequisite: Speech and Drama 32 or permission of the instructor. 3 units. First semester. *MWF, 9.*

61a, 61b. Character Presentation in Dramatic Literature. *Mrs. Allen.* A study of theories of acting and principles of stage behavior. Pantomime, improvisation, and presentation of scenes from plays. 3 units. *TThS, 10.*

102. Public Speaking. *Mr. Cornell.* A study of the various types of speeches. Special emphasis on gaining interest and attention, modes of proof, methods of exposition, and the psychology of persuasion. Prerequisite: Speech and Drama 32 or permission of the instructor. 3 units. Second semester. *MWF, 11.*

105. Oral Interpretation. *Mr. Cornell.* Development of skill in the oral presentation of literature. Practice in reading of expository and persuasive selections, poetry, and short stories. Development of reading programs. Prerequisite: Speech and Drama 32 or permission of the instructor. 3 units. Second semester. *TThS, 8.*

112a-112b. Playwriting. *Mrs. Allen.* Principles of playwriting and practice in writing plays. Study of the structure and style of significant plays for their light on the problems of the beginning playwright. Alternates with Speech and Drama 160a, b. 3 units. *TThS, 9.*

136. Principles and Types of Discussion. *Mr. Cornell.* The principles and types of group discussion as a method of problem solving. Projects in analysis, research, organization, logical processes, leadership. Prerequisite: Speech and Drama 32 or permission of the instructor. 3 units. First semester. *TThS, 9.*

137. Argumentation and Debate. *Mr. Cornell.* A study of the principles of argumentation and their application in classroom debates on current political, social, and economic problems. Emphasis on logical thinking and its relationship to effective oral communication. Prerequisite: Speech and Drama 32 or permission of the instructor. Speech and Drama 136 is also strongly recommended. 3 units. Second semester. *TThS, 9.*

160a, 160b. Advanced Acting and Directing. *Mrs. Allen.* First semester: Detailed study of characterization and styles of acting. Second semester: Fundamental principles of stage directing. Application of theories in class exercises and in the direction of a one-act play. 3 units. *TThS, 9.* (Omitted 1955-56.)

162. History and Criticism of American Public Address. *Mr. Cornell.* Introduction to the principles of speech criticism. Detailed study of the standards of rhetorical judgment and their application in the appraisal of speakers from the Colonial Period to the present. 3 units. Second semester. *MWF, 9.* (Offered in alternate years. Will be given in 1955-56.)

165. Readings and Research in Speech. *Mr. Cornell.* Reading and research programs for senior students who are capable of independent study in fields not included in regularly scheduled courses. 3 units. Arranged.

Shakespeare. For description see English 155a, 155b.

AVAILABLE AT SCRIPPS COLLEGE

II-150a, 150b. Development of the Theatre and the Drama. *Mr. Workman. MWF, 11.*

II-149. Theory of Dramatic Production. *Mr. Workman.* Prerequisite: Speech and Drama 160a, 160b. *MWF, 1:15-3:05.*

II-151a, 151b. Changing Techniques and Styles in Acting. *Mr. Workman.* Prerequisite: Speech and Drama 160a, 160b. (Omitted in 1955-56.)

Zoology

Zoology Concentration. Requirements: Zoology 1, 117, 137, and 157. In addition Zoology 130 and 150, and Biology 159 are strongly recommended.

Zoology-Chemistry Concentration. Requirements: Zoology 1, 37, or 137, and Biology 105; Chemistry 1, 59, 106, 110a, 111a; Physics 1 or 51; and additional units upper division work in Zoology and/or Chemistry to make at least 24 units.

Biology Concentration. See Biology listing.

Pre-professional Concentrations. For pre-medical, pre-dental concentrations see pre-professional programs, page ____.

Zoology 11, 130, and 150 are offered by Dr. Pequegnat at the Kerckhoff Marine Laboratory at Corona del Mar from August 1 to September 3. Tuition for 6 units is $90.00. Further information may be secured from Dr. Pequegnat.

1a, 1b. General Zoology. *Mr. Pequegnat, Mr. Amrein.* An introduction to modern zoology with special reference to phylogeny, physiology, development, genetics, and evolution; laboratory exercises include a study of selected animals and phenomena which best illustrate important zoological principles. No prerequisites. Laboratory fee $6.00 each semester. 3 units. Two sections. Section A, lectures *TTh, 8;* laboratory *Th* at either *1:15-3:05* or *3:15-5:05*. Section B, lectures *TTh, 10;* laboratory *W* at either *1:15-3:05* or *3:15-5:05*. Laboratory maximum of 24 students.

11. Marine Zoology and Ecology. *Mr. Pequegnat.* An elementary course in biological principles as observed in marine animals. Evolutionary development of the various groups, their specific identification, their ecological distribution, and their habits. Lecture, laboratory, and field work. Designed especially to fulfill the Biological Science requirement. Offered at the Marine Laboratory during the summer. 6 units.

37. Introduction to Anatomy and Physiology. *Mr. McCarthy.* A course designed primarily for students whose interests lie in physical education, physical or occupational therapy or nursing, psychology or sociology. Special attention given to the human subject and to the physiology of exercise. 4 units. Laboratory fee $6.00. Prerequisite: Biology 1 or equivalent. First semester. Lectures *MWF, 11;* laboratory *F, 1:15-4:05*.

106. Parasitology. *Mr. Amrein.* A consideration of animal associations and parasitism in general with special reference to those parasites of medical, economic, and social importance. Prerequisite: any of the following: Zoology 1, 11, or Biology 1. 2 units. Second semester. *MW, 9*.

107. Parasitology Laboratory. *Mr. Amrein.* Study of representative living and preserved parasites. Prerequisite or concurrent: Zoology 106. Laboratory fee $4.00. 1 unit. Second semester. *M, 2:15-4:05* and an arranged hour.

117a, 117b. Developmental and Comparative Vertebrate Anatomy. *Mr. McCarthy, Mr. Pequegnat.* A study from fertilization through maturity, with an analysis of phylogenetic changes. Prerequisite: Zoology 1. Laboratory fee $8.00 each semester. 4 units. Lectures *MWF, 9.* Laboratory either *M* or *Th, 1:15-4:05.*

125. Histological Technique. *Mr. McCarthy.* Theory and practice of preparation of vertebrate cells and tissues for microscopical study. Prerequisite: Zoology 1. May be repeated for credit. Laboratory fee $4.00. 2 units. Second semester. Lecture *W, 1:15,* laboratory *W, 2:15-4:05* and arranged hour.

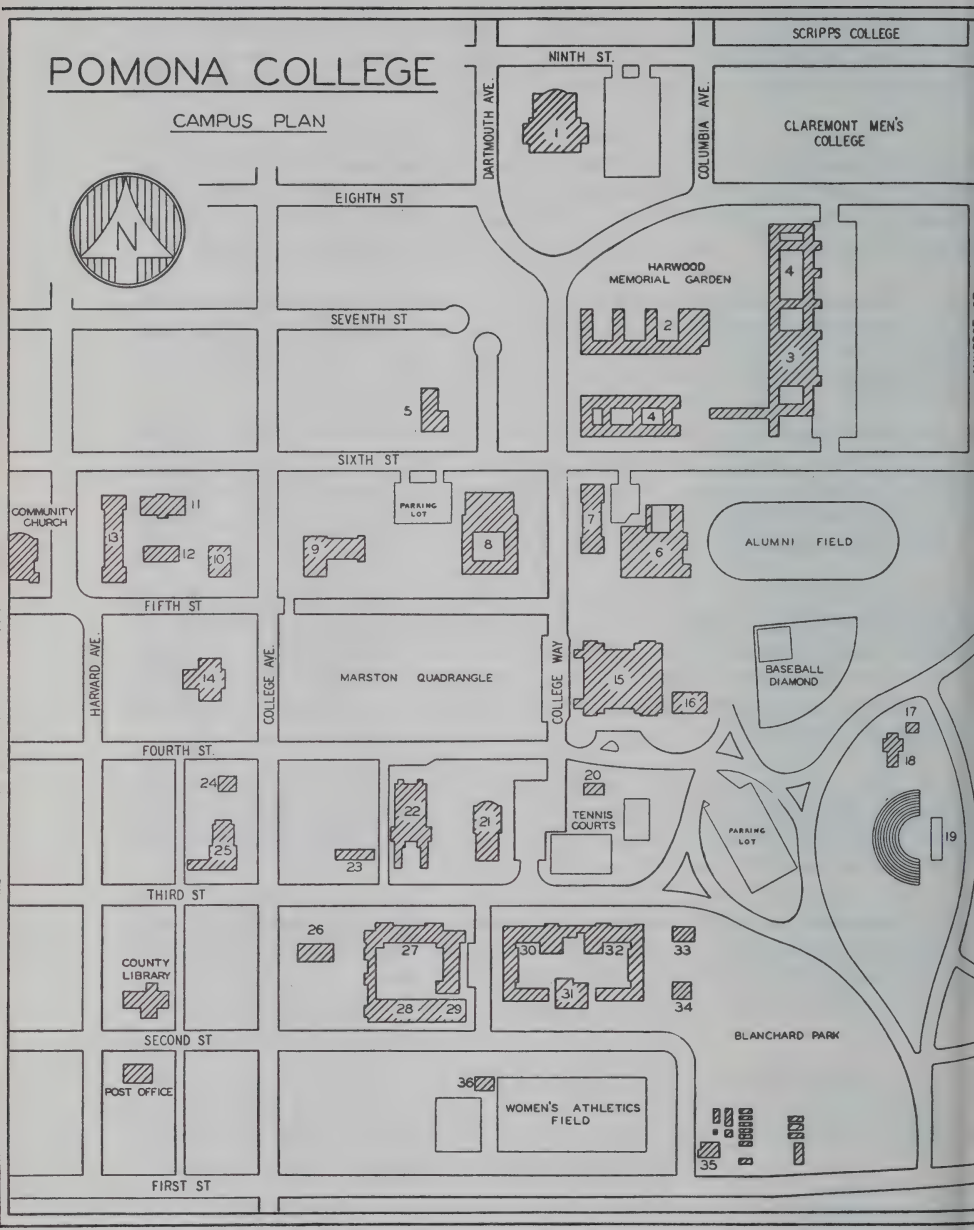
130. Marine Invertebrates. *Mr. Pequegnat.* A study of invertebrates residing in the sea: their phylogenetic relationships, their morphology, and their physiology. Laboratory devoted principally to Pacific Coast types. Offered at the Marine Laboratory during the summer. 3 units.

137a, 137b. Advanced Anatomy and Physiology. *Mr. Ryerson.* Fall semester: the gross and microscopic anatomy of mammals including a regional dissection of the cat. Spring semester: mammalian physiology. Prerequisite: Zoology 1, or 37. General chemistry recommended. Laboratory fee $8.00 each semester. 5 units. Lectures *MWF, 8;* laboratory *TTh, 1:15-4:05.*

150. Marine Ecology. *Mr. Pequegnat.* A study of marine invertebrates as they exist in the field. Discussion of the distribution of each species observed and the factors which may account for these distributional patterns. Prerequisite: a thorough grounding in the morphology and physiology of marine invertebrates or Zoology 130 concurrently. Offered at the Marine Laboratory during the summer. 3 units.

157a, 157b. Animal Ecology. *Mr. Pequegnat, Mr. Amrein.* A study of environment, life history, populations, communities, distribution, and evolution, with particular emphasis on the vertebrates. Laboratory fee $4.00 each semester. 3 units. Lectures *TTh, 9;* laboratory *F, 1:15-4:05.*

199. Introduction to Research in Zoology. *Staff.* Each semester. 1 to 3 units. May be repeated for credit. Laboratory fee $2.00 per unit. Offered at Marine Laboratory as well as at Claremont. Arranged.


POMONA COLLEGE
CAMPUS PLAN
N
SCRIPPS COLLEGE
NINTH ST.
DARTMOUTH AVE.
COLUMBIA AVE.
CLAREMONT MEN'S COLLEGE
EIGHTH ST
HARWOOD MEMORIAL GARDEN
SEVENTH ST
SIXTH ST
COMMUNITY CHURCH
PARKING LOT
ALUMNI FIELD
FIFTH ST
HARVARD AVE.
COLLEGE AVE.
MARSTON QUADRANGLE
COLLEGE WAY
BASEBALL DIAMOND
FOURTH ST.
TENNIS COURTS
PARKING LOT
THIRD ST
COUNTY LIBRARY
BLANCHARD PARK
SECOND ST
POST OFFICE
WOMEN'S ATHLETICS FIELD
FIRST ST

POMONA COLLEGE CAMPUS PLAN

(See map on opposite page)

1. Honnold Library operated by Claremont College for the Associated Colleges.
2. Helen R. Walker Hall, residence for men.
3. Frary Hall, central dining hall for men.
4. Eli P. Clark Hall, residence for men.
5. Baxter Medical Building for the Associated Colleges.
6. Memorial Gymnasium and Swimming Pool.
7. Smiley Hall, residence for men.
8. Edmunds Union, including student offices, cooperative store, ballroom, and lounges.
9. Holmes Hall, classrooms and assembly hall.
10. Pearsons Hall, physics laboratory, mathematics department.
11. Crookshank Hall, botany, biology, and zoology laboratories.
12. Harwood Hall, department of psychology.
13. Mason Hall, chemistry and geology laboratories.
14. Carnegie Building. Classrooms and offices.
15. Mabel Shaw Bridges Auditorium, seating 2600, operated by Claremont College in behalf of the Associated Colleges.
16. Renwick Gymnasium.
17. Seaver Laboratory, containing classrooms and library for the department of astronomy.
18. Frank P. Brackett Observatory.
19. Open-Air Theatre.
20. Replica of original home of Pomona College.
21. Sumner Hall, administration and classroom building.
22. Mabel Shaw Bridges Hall of Music, assembly hall for recitals and chapel services; music studios and practice rooms.
23. Rembrandt Hall, art studios.
24. President's House.
25. Claremont Inn, guest house for college and community, private and public dining rooms.
26. Baldwin House, residence for women.
27. Harwood Court, residence hall for women.
28. Aurelia Squier Harwood Memorial Dining Hall for women.
29. Mary McLean Olney Dining Hall for women.
30. Della Mulock Mudd Hall, residence for women.
31. Jessie E. Gibson Dining Hall for women.
32. Florence Carrier Blaisdell Hall, residence for women.
33. Casa Hispánica, residence for women.
34. Maison Française, residence for women.
35. Heating Plant and Maintenance Shops for the Associated Colleges.
36. Field House for women's athletics.

The Business Office for the Associated Colleges is located in Harper Hall at College and Tenth Streets.

The Infirmary for the Associated Colleges is located on Amherst Avenue north of Foothill Blvd.

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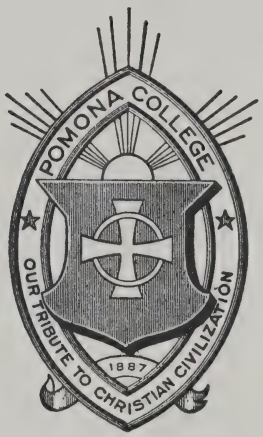
1956-1957



Pomona College

CLAREMONT, CALIFORNIA

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18	19	20	21	22	23	24
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SEPTEMBER						
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15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

OCTOBER						
S	M	T	W	T	F	S
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13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

NOVEMBER						
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3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

DECEMBER						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

PRINTED IN THE UNITED STATES OF AMERICA

COLLEGE CALENDAR FOR 1956-57

Claremont Summer Session 1956
First Term: June 25 - August 3
Second Term: August 6 - August 31 (Education only)

First Semester

September 21, Friday	Residence halls open for new students only. First meal served, dinner at 6 p.m.
September 21-24	Program for new students.
September 22, Saturday	Faculty Meeting, 10 a.m.
September 24, Monday	Conference Day and Registration for new students.
September 25 and 26 Tuesday and Wednesday	Registration for returning students. Residenc halls open for returning students. First mea served to returning students, breakfast, Tuesday.
September 27, Thursday	First semester classes begin, 8 a.m. Opening Convocation, 11 a.m.
October 11, Thursday	Last day for entering courses.
	Founders Day, Flame Ceremony, 11 a.m.
November 20, Tuesday	Low Grade Reports due.
November 21, Wednesday	Thanksgiving recess begins, 9:30 p.m.
November 26, Monday	Thanksgiving recess ends, 8 a.m.
	Final day for withdrawal from classes withou penalty.
December 15, Saturday	Christmas vacation begins, noon.
January 3, Thursday	Christmas vacation ends, 8 a.m. Reading perio begins.
January 26, Saturday	Last day of classes.
January 28, Monday	Final examinations begin.
February 6, Wednesday	Final examinations end.
February 9, Saturday	First semester ends.

COLLEGE CALENDAR FOR 1956-57

Second Semester

February 11, Monday	Opening day for classes at Scripps College. Pomona students enrolled in Scripps courses are expected to attend.
February 12, Tuesday	Registration for Juniors and Seniors.
February 13, Wednesday	Second semester classes begin, 8 a.m. Registration for Freshmen and Sophomores, afternoon only.
February 14, Thursday	Opening Convocation, second semester, 11 a.m. Registration for Freshmen and Sophomores, afternoon only.
February 27, Wednesday	Last day for entering courses.
March 16, Saturday	Matriculation Day.
April 3, Wednesday	Low Grade Reports due.
April 6, Saturday	Spring vacation begins, noon.
April 15, Monday	Spring vacation ends, 8 a.m.
April 17, Wednesday	Final day for withdrawal from classes without penalty.
	Easter: April 21
May 13, Monday	Reading period begins.
May 25, Saturday	Last day of classes for Seniors.
une 1, Saturday	Last day of Classes.
une 2, Sunday	Memorial Convocation, 5 p.m.
une 3, Monday	Final examinations begin.
une 9, Sunday	Associated Colleges Baccalaureate.
une 12, Wednesday	Final examinations end.
une 15, Saturday	Alumni Day.
une 16, Sunday	Commencement.
une 20, Thursday	Scholarship Committee Meeting.
une 21, Friday	Joint meeting of the Classification and Student Affairs Committees.
eptember 20-23	Program for new students
eptember 23	Registration begins.

BOARD OF TRUSTEES

Officers

Rudolph J. Wig, *President*
Arthur J. McFadden, *Vice-President*
Fred W. Smith, *Vice-President*

Term of Office Expires June, 1956

William B. Himrod, *Hollywood*
Arthur J. McFadden, *Santa Ana*
Charles E. Donnelly, *Los Angeles*
Yale B. Griffith, *Santa Barbara*
E. Wilson Lyon, *Claremont*
James W. Fifield, Jr., *Los Angeles*

Term of Office Expires June, 1957

Willis H. Merrill, *Long Beach*
William W. Clary, *Pasadena*
Rudolph J. Wig, *San Marino*
Frederick S. Bale, *Pasadena*
Charles Detoy, *Pasadena*

Term of Office Expires June, 1958

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Samuel R. Raymond, *Los Angeles*
Mrs. Victor Montgomery, *Beverly Hills*
Mark H. Harrington, *Pasadena*
Morris B. Pendleton, *San Marino*
Cyril Chappellet, *Los Angeles*

Term of Office Expires June, 1959

Fred W. Smith, *Ojai*
Elmo H. Conley, *Pasadena*
William A. Johnson, *San Marino*
Roy E. Thomas, *Los Angeles*
Paul Fussell, *Pasadena*
John W. Dodds, *Palo Alto*

Term of Office Expires June, 1960

Terrell C. Drinkwater, *Los Angeles*
A. J. Gock, *Los Angeles*
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Frank R. Seaver, *Los Angeles*
Leonard A. Shelton, *Claremont*
Carl I. Wheat, *San Francisco*

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Robert H. Craig, *Portuguese Bend*
George L. Eastman, *Hollywood*
Mary Clark Eversole, *La Canada*
Luther Freeman, *Claremont*
Robert P. Jennings, *Sierra Madre*
Ernest E. Jones, *Claremont*
George R. Martin, *Los Angeles*
William S. Mason, *Pasadena*
Seeley G. Mudd, *San Marino*
Mary McLean Olney, *Berkeley*
George S. Sumner, *Claremont*

Ex-Officio Members

Managing Director, Claremont College
President of the Alumni Association
President of the Women's Campus Club
President of the Pomona College Associates

FORMER PRESIDENTS OF THE COLLEGE

Cyrus G. Baldwin, *1890 - 1897*
George A. Gates, *1901 - 1910*
Franklin L. Ferguson, *1897 - 1901*
James A. Blaisdell, *1910 - 1928*
Charles K. Edmunds, *1928 - 1941*

GENERAL ADMINISTRATION

1956-57

E. Wilson Lyon, *President* — *209 Sumner Hall*
B.A., University of Mississippi; B.A. and B. Litt., University of Oxford; Ph.D. University of Chicago; LL.D., Colgate University; D.Litt., Occidental College; L.H.D., Trinity College.

Allen F. Hawley, *Vice-President in Charge of Development* — *203 Sumner Hall*
B.A., Pomona College; Graduate Student, Harvard University.

Paul H. Burton, *Controller* — *Harper Hall*
B.A. Western Reserve University.

William V. Shannon, *Treasurer* — *Harper Hall*
B.S., Virginia Military Institute.

William B. Himrod, *Assistant to the President* — *203 Sumner Hall*
B.A., Pomona College. Graduate Student, University of Southern California.

John F. Moulds, *Assistant to the President* — *203 Sumner Hall*
Ph.B., University of Chicago.

Louis B. Perry, *Assistant to the President* — *203 Sumner Hall*
B.A., M.A., Ph.D., University of California at Los Angeles.

Glenn V. Fuller, *Bursar* — *Harper Hall*
B.A., Ohio State University.

Marjorie B. Woodford, *Assistant Treasurer* — *Harper Hall*
B.A., Pomona College; M.A., Columbia University.

Frank H. Taylor, *Assistant Controller* — *Harper Hall*
B.S., University of Southern California.

Morton C. Johnson, *Alumni Secretary* — *212 Sumner Hall*
B.A., Pomona College.

Kenneth E. Overaker, *Director of the News Bureau* — *200 Sumner Hall*

Agnes M. Johnson, *Executive Secretary to the President* — *204 Sumner Hall*

Ina T. Nider, *Social Director, Women's Campus* — *Harwood Court*
B.A., Fresno State College; M.A., Columbia University.

Jesse A. Cone, Jr., *Director of Men's Campus* — *Eli P. Clark Hall*
B.A., M.A., Stanford University.

Dorothy G. Metzger, *Director of Residence Halls* — *Mudd Hall*
B.S., Iowa State College.

Lucille Gramse McCarthy, *Director of Dining Halls* — *Frary Hall*
B.S., M.S., Kansas State College of Applied Science.

Harold Honoré, *Campus Engineer* — *303 E. First St.*

The Faculty

Date denotes beginning of original term of service

ADMINISTRATIVE OFFICERS

ELIJAH WILSON LYON — 345 North College Ave
President, 1941.
B.A., University of Mississippi; B.A., and B. Litt., University of Oxford; Ph.D., University of Chicago; LL.D., Colgate University; Litt. D., Occidental College; L.H.D., Trinity College.

FRANCIS RAYMOND IREDELL — 1060 College Ave
Dean of the Faculty, and Professor of Philosophy on the Robert C. Denison Foundation, 1925.
B.A., Pomona College; M.A., Ph.D., Harvard University.

J. EDWARD SANDERS — 310 Radcliffe Drive
Dean of Students and Dean of Admissions, 1942.
B.A., Hendrix College; M.A., Ph.D., Columbia University.

SHELTON L. BEATTY[3] — 741 Dartmouth Ave
Dean of Men, 1949.
B.A., University of Tennessee; M.A., Cornell University; Ph.D., Stanford University

JEAN B. WALTON — 147 E. Twelfth St
Dean of Women on the Martha N. Hathaway Foundation, 1949.
B.A., Swarthmore College; M.A., Brown University; Ph.D., University of Pennsylvania

WILLIAM L. WHEATON — 328 Oakdale Dr
Acting Dean of Men, 1956-57; Associate Dean of Admissions, 1949.
B.A., Pomona College; M.A., New York University.

HERBERT B. SMITH — 414 Elder Dr
Assistant Dean of Admissions, 1956-57; Assistant Professor of History, 1952.
B.A., M.A., University of Iowa; Ph.D., University of California.

MASAGO ARMSTRONG — 160 E. Foothill Blvd
Registrar, 1955
B.A., M.A., Stanford University.

DAVID W. DAVIES — 524 W. Tenth St
Librarian, 1947.
B.A., University of California at Los Angeles; M.A., University of California; Ph.D. University of Chicago.

GILBERT S. COLTRIN — 333 Radcliffe Dr
Physician of the Associated Colleges, 1940.
B.A., Pomona College; M.D., University of Rochester. Interne, Resident in Medicine University of California Hospital; Fellow in Urology, Presbyterian Hospital, New York City; Exchange Fellow in Physiology, University of Kiel, Germany.

D. SCOTT FOX — 1390 Via Zurita
Assistant Physician of the Associated Colleges, 1952.
B.S., Ph.D., Cornell University; M.D., Stanford University.

W. ROBERT RANKIN — 645 N. College Ave
Chaplain of Associated Colleges Church, 1951.
B.A., State University of Iowa; B.D., M.A., Yale University.

EMERITI

Walter Alfred Allen 175 E. Twelfth St.
Emeritus Professor of Musical Theory and Appreciation, 1912.
B.A., Beloit College; B.Mus., Yale University. Associate, American Guild of Organists.

Ray Erwin Baber 999 College Ave.
Emeritus Professor of Sociology on the Henry Snyder Foundation, 1939.
B.A., Campbell College; M.A., Ph.D., University of Wisconsin.

Grace Ella Berry 353 W. Eleventh St.
Emeritus Dean of Women and Associate Professor of Mathematics, 1909.
B.S., M.A., Mount Holyoke College.

James White Crowell 450 University Circle
Emeritus Professor of Romance Languages, 1929.
B.S., M.A., Haverford College; Ph.D., Cornell University.

Robert Sidney Ellis 1237 Dartmouth Ave.
Emeritus Professor of Psychology, 1931.
B.A., University of Arkansas; Ph.D., Clark University.

Bernard Capen Ewer 706 Indian Hill Blvd.
Emeritus Professor of Psychology, 1916.
B.A., M.A., Brown University; Ph.D., Harvard University.

Marion Jeanette Ewing 455 W. Seventh St.
Emeritus Assistant Librarian, 1912.
B.A., Olivet College; B.S., Simmons College; M.A., Boston University.

Charles Tabor Fitts 445 Harrison Ave.
Emeritus Professor of Education, 1919.
B.A., Amherst College; M.A., University of California. Graduate study, Harvard University.

Colvin Heath 750 Indian Hill Blvd.
Emeritus Associate Professor of Physical Education for Men, 1922.
B.A., Pomona College; M.A., Stanford University.

William Atwood Hilton 1293 Dartmouth Ave.
Emeritus Professor of Zoology on the Willard George Halstead Foundation, 1905.
B.S., Ph.D., Cornell University.

rnest E. Jones 905 College Ave.
Treasurer Emeritus, 1909.
B.A., Pomona College.

yril Jurecka 163 W. Eleventh St.
Emeritus Assistant Professor of Art, 1932.
Graduate, Imperial and Royal College of Sculpture, Horice, Bohemia.

William Kirk 705 Indian Hill Blvd.
Emeritus Professor of Sociology on the Henry Snyder Foundation, 1922.
B.A., Ph.D., Johns Hopkins University.

lliott Curtis Lincoln 472 W. Tenth St.
Emeritus Professor of English on the Phebe Estelle Spalding Foundation, 1924.
B.A., Colby College; M.A., State College of Washington and Harvard University.

BRUCE MCCULLEY
Emeritus Professor of English Literature, 1921.
B.A., Hiram College; M.A., University of Chicago; Ph.D., Harvard University.

EUGENE WHITE NIXON 3163 Indian Hill Blv
Emeritus Professor of Physical Education for Men, 1916.
B.A., Monmouth College; M.A., Columbia University. Graduate study, Illinois ar California Universities.

BENJAMIN DAVID SCOTT
Emeritus Professor of Public Address, 1923.
B.A., University of Southern California; S.T.B., Ph.D., Boston University. Gradua work, Brown and Harvard Universities.

GEORGE STEDMAN SUMNER 245 N. College Av
Emeritus Professor of Economics and Sociology, 1897.
Controller, 1922-1941.
B.A., Pomona College; B.A., Ph.D., Yale University.

WALTER TICKNOR WHITNEY 445 W. Tenth S
Emeritus Professor of Astronomy on the Frank P. Brackett Foundation and Director the Observatory, 1929.
B.S., M.S., Pomona College; Ph.D., University of Chicago.

ALFRED OSWALD WOODFORD 760 W. Ninth S
Emeritus Professor of Geology, 1915.
B.A., Pomona College; Ph.D., University of California.

PROFESSORS

CARL BAUMANN 567 W. Eighth S
Professor of German, 1931.
Ph.D., University of Basel.

GRAHAM B. BELL
Professor of Psychology, 1956.
B.A., Wesleyan University; M.A., Ph.D., Northwestern University.

LYMAN BENSON 1430 Via Zuri
Professor of Botany on the Henry Kirke White Bent Foundation, 1944.
B.A., M.A., Ph.D., Stanford University.

FLOYD A. BOND 234 W. Eighth S
Professor of Economics on the Stedman-Sumner Foundation, 1948.
B.A., M.A., Ph.D., University of Michigan.

FREDERICK BRACHER 230 W. Seventh S
Professor of English, 1944.
B.S., Oregon State College; M.A., Ph.D., University of California.

CH'EN SHOU-YI 769 W. Ninth S
Professor of Chinese Culture, 1941.
B.A., Lingnan University; Ph.D., University of Chicago; Fellow of the Academ Sinica.

HAROLD DAVIS — 612 W. Tenth St.
Professor of English on the Phebe Estelle Spalding Foundation, 1927.
B.A., Stanford University; B.A. and B. Litt., University of Oxford.

KENNETH G. FISKE — 585 W. Twelfth St.
Professor of Music, 1936.
B.Mus., M.Mus., American Conservatory of Music. Pupil of Leon Sametini, Jacques Gordon, Otokar Sevcik.

CHARLES A. FOWLER, JR. — 256 E. Second St.
Professor of Physics on the Seeley W. Mudd Foundation, 1947.
B.A., M.S., University of Utah; Ph.D., University of California.

EDWARD MONTGOMERY FRYER — 231 W. Tenth St.
Professor of Physics, 1946.
B.A., Pomona College; M.E., Ph.D., Stanford University.

ROBERT F. GALER — 790 Wellesley Dr.
Professor of Military Science and Tactics, 1953.
B.A., University of Washington; Graduate Study, Montana State University. Lt. Col., Infantry, United States Army.

JOHN HOWES GLEASON — 512 Baughman Ave.
Professor of History on the Warren Finney Day Memorial Foundation, 1939.
B.A., Ph.D., Harvard University; B.Litt., University of Oxford.

HUGH J. HAMILTON — 1269-C Harvard Ave.
Professor of Mathematics, 1936.
B.A., University of California at Los Angeles; M.A., Ph.D., Brown University.

LORWIN HERMAN HANSCH — 4070 Olive Knoll Place
Professor of Chemistry, 1946
B.S., University of Illinois; Ph.D., New York University.

HUBERT HERRING — 225 E. Eleventh St.
Professor of Latin American Civilization, 1945.
B.A., Oberlin College; M.A., Columbia University; Graduate, Union Theological Seminary.

FRANCIS RAYMOND IREDELL — 1060 College Ave.
Professor of Philosophy on the Robert C. Denison Foundation, and Dean of the Faculty, 1925.
B.A., Pomona College; M.A., Ph.D., Harvard University.

CHESTER GEORGE JAEGER — 1045 Yale Ave.
Professor of Mathematics on the Joseph N. Fiske Foundation, 1931.
B.A., B.S., M.A., Ph.D., University of Missouri.

WILLIAM THOMAS JONES — 4201 Via Padova
Professor of Philosophy, 1938.
B.A., Swarthmore College; B. Litt., University of Oxford; Ph.D., Princeton University.

JOHN HASKELL KEMBLE[3] — 452 West Sixth St.
Professor of History, 1936.
B.A., Stanford University; M.A., Ph.D., University of California.

MILES D. MCCARTHY — 444 Harrison Ave.
Professor of Zoology, 1946.
B.S., West Chester State Teachers College; Ph.D., University of Pennsylvania.

FREDERICK LUDWIG MULHAUSER, JR.[2] 424 W. Eleventh
Professor of English, 1941.
B.A., College of Wooster; M.A., Ph.D., Yale University.

WILLIS E. PEQUEGNAT 433 Harrison A
Professor of Zoology on the Willard George Halstead Foundation, 1940.
B.A., University of California; Ph.D., University of California at Los Angeles.

DWIGHT LEONARD RYERSON 107 E. San J
Professor of Zoology, 1946.
B.A., M.S., University of Arizona; Ph.D., University of California at Los Angeles.

R. NELSON SMITH 115 Brown
Professor of Chemistry, 1945.
B.A., Pomona College; M.A., Ph.D., Stanford University.

ERNEST ALBERT STRATHMANN 160 W. Eleventh
Professor of English, 1932.
B.A., M.A., Ph.D., Johns Hopkins University.

ROBERT LOBINGIER STREHLE 1019 Dartmouth A
Professor of Physical Education for Men, 1923.
B.A., Pomona College; M.A., Claremont Graduate School; Graduate study, Univer
of Southern California, University of California, Stanford University.

JOHN ALBERT VIEG 910 Oxford A
Professor of Government, 1945.
B.A., St. Olaf College; M.A., University of Iowa; Ph.D., University of Chicago.

ASSOCIATE PROFESSORS

VIRGINIA PRINCEHOUSE ALLEN 175 E. Twelfth
Associate Professor of Dramatics, 1930.
B.A., Pomona College; Graduate study, Department of Drama, Yale University; M
Claremont Graduate School.

WILLIAM G. BLANCHARD 1495 Via Zu
Associate Professor of Music and College Organist, 1936.
B.Mus., DePauw University; M.Mus., University of Michigan. Further study with
Weinrich and Hugh Porter in organ and with Seth Bingham in composition.

HARRY JOSEPH CARROLL, JR. 243 N. Alexander A
Associate Professor of Classics, 1948.
B.A., University of Akron; M.A., Ph.D., Harvard University.

ELIZABETH CAWTHORNE 758 Baylor
Associate Professor of Physical Education for Women, 1935.
B.A., M.A., University of California.

DARYL DAYTON 262 W. Sixth
Associate Professor of Music, 1938.
B.Mus., Oberlin College; Graduate study in Berlin and New York with Artur Schna
Leonard Shure, Dalies Frantz, and Guy Maier.

BURTON HENKE 121 Brown Dr
Associate Professor of Physics, 1948.
B.A., Miami University; M.A., Ph.D., California Institute of Technology.

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Associate Professor of English, 1941.
B.A., Oberlin College; Ph.D., Princeton University.

RETCHEN GRAF JORDAN[3] — 638 E. Sixth St.
Associate Professor of English, 1947.
B.A., M.A., Ohio State University; Ph.D., University of California at Los Angeles.

ORDON CANFIELD LEE — 326 E. Cucamonga Ave.
Associate Professor of Education, 1948.
B.A., University of California; M.A., Ph.D., Columbia University.

OBERT F. LEGGEWIE — 240 Annapolis Dr.
Associate Professor of Romance Languages, 1951.
B.S., Loyola University; M.A., University of Southern California; A.M., Ph.D., Harvard University.

ONALD B. MCINTYRE — 136 E. Seventh St.
Associate Professor of Geology, 1954.
B.Sc., Ph.D., D.Sc., University of Edinburgh.

ARL JAY MERRITT[2] — 641 Harvard Ave.
Associate Professor of Physical Education, 1925.
B.A., Pomona College; M.A., Claremont Graduate School.

ENRY CORD MEYER — 470 Harrison Ave.
Associate Professor of History, 1946.
B.A., University of Colorado; M.A., University of Iowa; Ph.D., Yale University.

ERHARD OERTEL
Associate Professor of Geology, 1956.
Studied at University of Graz, Austria, and University of Bonn, Germany; Ph.D. and Privatdozent.

OUIS B. PERRY — 2929 Claremont Hts. Dr.
Associate Professor of Economics, 1947.
B.A., M.A., Ph.D., University of California at Los Angeles.

OWIN ALLEN PHILLIPS — 146 E. Twelfth St.
Associate Professor of Botany, 1948.
B.A., Colgate University; M.A., Ph.D., University of Michigan.

ILLIAM F. RUSSELL — 202 N. College Ave.
Associate Professor of Music, 1951.
B.A., Columbia University; M.A., Harvard University.

LVIN HEWITT SCAFF — 670 S. College Ave.
Associate Professor of Sociology, 1947.
B.A., University of Texas; B.D., Chicago Theological Seminary; M.A., Ph.D., University of Texas.

TER HOWARD SELZ — 320 Harvard Ave.
Associate Professor of Art, 1955.
M.A., Ph.D., University of Chicago.

HN SEWALL SHELTON — 1100 Oxford Ave.
Associate Professor of Geology, 1946.
B.A., Pomona College; Ph.D., Yale University.

ELMER B. TOLSTED 337 W. Fifth
Associate Professor of Mathematics, 1947.
B.S., M.S., University of Chicago; Ph.D., Brown University.

EMILIE ELIZABETH WAGNER 783 W. Tenth
Associate Professor of German, 1928.
B.A., Smith College; M.A., Pennsylvania State College. Doctorate de l'Univers
mention Lettres, Toulouse.

EDWARD WEISMILLER 510 W. Tenth
Associate Professor of English, 1949.
B.A., Cornell College; M.A., Harvard University; D.Phil., University of Oxford; D.Li
Cornell College.

ASSISTANT PROFESSORS

C. FREEMAN ALLEN 125 E. Oak Park D
Assistant Professor of Chemistry, 1954.
B.S., University of California at Berkeley; Ph.D., University of Wisconsin.

YOST U. AMREIN 456 Harrison Av
Assistant Professor of Zoology, 1951.
B.A., M.A., Ph.D., University of California at Los Angeles.

HARRY V. BALL
Assistant Professor of Sociology, 1956.
B.A., M.A., Washington University; doctoral candidate, University of Minnesota.

THOMAS B. BELL 417 E. Cucamonga Av
Assistant Professor of Physical Education for Men, 1947.
B.A., M.A., University of California.

MARGERY SMITH BRIGGS 4549 Live Oak D
Assistant Professor of Music, 1943.
B.Mus., B.Mus.Ed., M.Mus., Chicago Musical College.

FRANK C. CHILD 686 Colorado S
Assistant Professor of Economics, 1952.
B.A., University of Utah; M.A., Ph.D., Stanford University.

JESSE A. CONE, JR. Eli P. Clark Ha
Assistant Professor of Physical Education for Men, 1953.
B.A., M.A., Stanford University.

LORNE D. COOK 830 Harvard Av
Assistant Professor of Economics, 1954.
B.A., M.A., Ph.D., University of Michigan.

ANN LINDSTAEDT COPPLE 205 W. Cucamonga Av
Assistant Professor of French, 1953.
B.A., Wellesley College; M.A., University of Wisconsin; Ph.D., Northwestern Universit

WILLIAM L. FAUST 1100 Harvard Av
Assistant Professor of Psychology, 1953.
B.A., M.A., Ph.D., Stanford University.

RAY FRAZER 1102 North College Av
Assistant Professor of English, 1952.
B.A., Pomona College; M.A., Ph.D., University of California.

'HERESA ZEZZOS FULTON — 46 N. Los Robles Ave., Pasadena
Assistant Professor of Art
B.A., Wellesley College; Ph.D., Harvard University.

AMES E. GRANT — 676 W. Ninth St.
Assistant Professor of Art, 1950.
B. E., M.F.A., University of Southern California; Student at Jepson Art Institute.

DWIN HALSEY — 228 Harvard Ave.
Assistant Professor of Religion, 1955.
B.A., Dartmouth College, M.A., Ph.D., Harvard University.

GORDON D. KAUFMAN — 145 E. Sixth St.
Assistant Professor of Religion, 1953.
B.A., Bethel College; M.A., Northwestern University; B.D., Ph.D., Yale University.

ARL GEORGE KOHN — 135 E. Sixth St.
Assistant Professor of Music, 1950.
B.A., M.A., Harvard University.

'INCENT H. LEARNIHAN — 220 W. Tenth St.
Assistant Professor of History, 1949.
B.A., M.A., Ph.D., University of California at Los Angeles.

ICHARD N. LOUCKS — 176 W. Oak Park Dr.
Assistant Professor of Music, 1948.
B.A., Pomona College; M.A. and Doctoral Candidate, Eastman School of Music.

RANCIS X. MAGGIPINTO — 425 Carleton Ave.
Assistant Professor of Romance Languages, 1952.
B.A., University of California at Los Angeles; M.A., Ph.D., Stanford University.

DWARD W. MALAN[1] — 118 Oak Park Dr.
Assistant Professor of Physical Education for Men, 1950.
B.A., Pomona College; M.A., Claremont Graduate School; Graduate Student, University of California at Los Angeles.

EE CAMERON MCDONALD — 1129 Dartmouth Ave.
Assistant Professor of Government, 1952.
B.A., Pomona College; M.A., University of California at Los Angeles; Ph.D., Harvard University.

ACK C. MILLER — 1953 W. Eighth St., Upland
Assistant Professor of Physics, 1952.
B.A., Pomona College; M.A., University of California; D.Phil., University of Oxford.

/ILLIAM C. OLSON — 338 Harvard Ave.
Assistant Professor of Government, 1953.
B.A., University of Denver; M.A., Ph.D., Yale University.

ERHARD N. ROSTVOLD — 448 Springfield St.
Assistant Professor of Economics, 1952.
B.A., M.A., Ph.D., Stanford University.

AUL MCRAE ROUTLY — 408 W. Third St.
Assistant Professor of Astronomy, 1954.
B.Sc., M.Sc., McGill University; M.A., Ph.D., Princeton University.

HERBERT B. SMITH 414 Elder
Assistant Professor of History, 1952.
B.A., M.A., University of Iowa; Ph.D., University of California.

FREDERICK SONTAG 642 N. College A
Assistant Professor of Philosophy, 1952.
B.A., Stanford University; M.A., Ph.D., Yale University.

ALVA W. SWARTZ 767 W. Third
Assistant Professor of Military Science and Tactics, 1955.
University of Illinois; Graduate, Transportation School; Major, Transportation Co
United States Army.

JOHN W. WILKES 156 W. Seventh
Assistant Professor of History, 1955.
B.A., Northwestern University; M.A., University of Chicago; Ph.D., Northwes
University.

HOWARD THOMAS YOUNG 1269-A Harvard A
Assistant Professor of Romance Languages, 1954.
B.S., M.A., and Ph.D., Columbia University.

INSTRUCTORS

WILLIAM B. ARCE
Instructor in Physical Education for Men, 1956.
B.A., M.A., doctoral candidate, Stanford University.

JAY DAVIS
Instructor in Mathematics, 1956.
B.A., Pomona College, graduate study, Stanford University.

ROBERT S. DAVIS 443 W. Tenth
Instructor in English, 1956.
B.A., Indiana University; M.A., doctoral candidate, Claremont Graduate School.

DANIEL R. ELLER 135 E. Sixth
Instructor in Music, 1954.
B.Mus., M. Mus., University of Illinois.

MARTIN E. FULLER
Instructor in Chemistry, 1956.
B.S., University of California at Los Angeles; doctoral candidate Massachusetts Ins
tute of Technology.

CHARLES M. LESLIE
Instructor in Sociology and Anthropology, 1956.
B.A., M.A., doctoral candidate, University of Chicago.

YNDON R. MUSOLF 1164 W. I St., Ontario
Instructor in Government, 1955.
B.A., M.A., University of South Dakota; doctoral candidate, University of California at Los Angeles.

IELEN M. SMITH[3] 120 W. Third St.
Instructor in Violin, 1949.
B.A., Pomona College.

ALLY ANNE TAYLOR 567 W. Eight St.
Instructor in Physical Education for Women, 1950.
B.A., Pomona College; M.A., Stanford University; Graduate work, University of Southern California.

OIS A. TIDGWELL 1659 W. Foothill Blvd., Upland
Instructor in Physical Education for Women, 1955.
B.A., Pomona College; M.A., Indiana University.

PART-TIME FACULTY

LORENCE BLAKE French House
French
B.A., Longwood College; M.A. candidate, Claremont Graduate School.

ALMAN BLOCH 3914 Franklin Ave., Los Angeles
Clarinet
First Clarinetist, Los Angeles Philharmonic Orchestra.

ARGARET GAY DAVIES 395 Bonnie Ave., Pasadena
History
B.A., M.A., Ph.D., Radcliffe College.

RNST H. EIN 374 S. Mountain Ave.
Russian
Graduate, Law School of Tartu University; D.J., Institute of Roman Law, Rome.

HELMA NEFT GELLER 3726 Lynoak Dr., La Verne
Oboe
Graduate, Curtis Institute of Music. Formerly oboist with the Pittsburgh Symphony Orchestra.

EWIS L. GRIMM 220 W. Bonnie Brae Court, Ontario
Engineering Drawing
B.S., California Institute of Technology.

REDERICK H. HAMMERSLEY 671 S. Rampart, Los Angeles
Painting
Student, Chouinard Art Institute; Ecole des Beaux Arts, Paris; Jepson Art Institute.

AVID HARRAH
Philosophy
B.A., Stanford University, Ph. D., Yale University

MARGOT JEAN — 272 S. Almont, Beverly Hil
Violoncello
Pupil of Jacob at the Royal Conservatoire in Brussels.

JEAN PILON — 8415 Sanger Ave., Whitti
Voice
B.A., M.A., Chicago Musical College.

RALPH S. PYLE — 4136 Lowell Ave., La Crescent
French Horn
B.A., M.A., New York University; French Horn, Los Angeles Philharmonic Orchestra

DOROTHY REMSEN — 137 N. Serrano, Los Angele
Harp
Harpist, Los Angeles Philharmonic Orchestra.

ROGER STEVENS — 1677 E. Mountain St., Pasaden
Flute
Flutist, Los Angeles Philharmonic Orchestra.

GEORGE H. TYLER — 140 E. Twelfth S
Brass Instruments
Formerly first trumpet with Los Angeles Philharmonic Orchestra.

PEGOT WARING — 8364 Melrose Ave., Los Angele
Sculpture
Studied at Washington University, Cranbrook Academy of Art, and Atelier de Sculpture

MEMBERS OF THE CLAREMONT GRADUATE SCHOOL FACULTY OFFERING COURSES IN POMONA COLLEGE

DOUGLAS G. ADAIR
Professor of American History, Claremont Graduate School
B.A., University of the South; M.A., Harvard University; Ph.D., Yale University.

JAMES D. CALDERWOOD
Professor of International Economics
B. Com., London School of Economics; Ph. D., Ohio State University.

SHERWIN CARLQUIST
Assistant Professor of Botany
B.A., doctoral candidate, University of California at Berkeley.

SAMUEL C. CHEW
Professor of English Literature
B.A., Ph.D., Litt. D., Johns Hopkins University.

J. LEROY DAVIDSON
Professor of the History of Art
B.A., Harvard University, M.A., New York University, Ph.D., Yale University

MERRILL R. GOODALL
Associate Professor of Asian Studies and Government
B.A., M.A., University of California; Ph.D., Johns Hopkins University

[1]Absent on leave, first semester, 1956-1957.
[2]Absent on leave, second semester, 1956-57.
[3]Absent on leave 1956-57.

FACULTY COMMITTEES 1956-1957

First person named is the Committee Chairman

Administration—President, Dean of the Faculty, Bracher, Fowler, Sanders, Scaff, Nelson Smith, Strathmann.

Admission—Sanders, Armstrong, Frazer, Kaufman, Herbert Smith, Wheaton.

Athletic Council—Strehle, Jaeger, Phillips, three student representatives, and two alumni representatives.

Pomona College Representatives on the Southern California Intercollegiate Athletic Conference—Jaeger, Strehle.

Classification—Iredell, Armstrong, Fiske, Lee, McDonald, Ryerson.

College Life Council—McIntyre, Olson, Phillips, Russell, Sanders, Walton, Wheaton, and nine student members. An elected chairman.

Courses of Study—Iredell, Graham Bell, Benson, Bond, Fowler, Gleason, Hansch, Holmes, Leggewie, Russell, Sanders, Selz, Vieg.

English—Scaff, Freeman Allen, Hamilton, Learnihan, McDonald.

Honors—Jones, Cook, Gleason, Kohn, Routly.

International Relations—Olson, Child, Meyer, Scaff, Young.

Library—Benson, Bond, Davies, Dayton, Fryer, Hansch, Jones, Weismiller.

Personnel—Wheaton, Amrein, Armstrong, Graham Bell, Thomas Bell, Nider, Sanders, Taylor, Walton, and four student representatives selected by the Executive Council of the Associated Students.

Pre-Law—Bond, Frazer, Gleason, McDonald.

Pre-Medical—McCarthy, Coltrin, Hansch, Pequegnat, Ryerson, Tolsted, Young.

Public Events—Iredell, Bond, McCarthy, Meyer, Vieg, Weismiller.

Religious Activities—Kaufman, Blanchard, Halsey, McDonald, Miller, Rankin, Herbert Smith.

Scholarships and Student Aid—Walton, Loucks, Malan, Meyer, Sanders, Nelson Smith, Sontag.

Student Affairs—Sanders, Cone, Jaeger, Lee, Shelton, Walton, Weismiller, Wheaton, and four members of the Executive Council of the Associated Students.

Vocational Counselling and Placement—Wheaton, Cawthorne, Faust, Grant, Leggewie, Loucks, Rostvold, Routly, Strehle.

The College

Pomona College is an independent, privately endowed, coedu cational institution of arts and sciences. Originally establishe in 1887 to serve its immediate region, the college now enjoy support from every section of the United States. Enrollment is re stricted to approximately one thousand students, divided equall among the four classes.

The purpose of the college is to awaken the minds and develo the personalities of its students so that they may attain full growt both as individuals and as responsible members of a democrati society.

Pomona College was incorporated on October 14, 1887, by a grou of early settlers who wanted to see in Southern California a "Chris tian College of the New England type." Under the leadership o the Reverend Charles B. Sumner, a devoted and self-sacrificin group were appointed members of the first Board of Trustees by th General Association of Congregational Churches of Souther California. The original trustees were: Henry K. W. Bent, Natha W. Blanchard, Anson Brunson, Elwood Cooper, James T. Ford James H. Harwood, Dexter D. Hill, Theodore C. Hunt, George W Marston, John K. McLean, Henry A. Palmer, Seth Richards, Charle B. Sheldon, Charles B. Sumner, and Andrew J. Wells. Thes Christian pioneers, deeply committed to religious, political, an economic freedom, founded a college dedicated to the pursuit o truth and knowledge—principles to which it has ever remaine steadfast.

Instruction was begun in September, 1888, in a small rente house in the city of Pomona. The following January an unfinishe hotel (now Sumner Hall) in nearby Claremont, together wit considerable land adjacent, was given to the College and the worl was transferred to that place. Although this location was originall regarded as temporary, Claremont later became the permanen home of the College. By that time, however, the name of "Pomon College" had become so definitely fixed to the institution that it wa retained, notwithstanding the location.

The College met a need for higher education in Southern Cali fornia, and after the initial years its growth was constant. The firs class was graduated in 1894, at which time the total number o

college students was forty-seven. The preparatory department, essential in the beginning, was discontinued in 1910.

With the freedom characteristic of Congregational organization, Pomona was soon entrusted with its own government and in 1903 was freed from any organic association with the church of its origin. Today the Board of Trustees is a self-perpetuating body, free from ecclesiastical control, but pledged under its charter to maintain the institution as truly Christian, though nonsectarian.

Pomona is a liberal arts college, which affords a full academic program in the social sciences, the natural sciences, and the humanities. The curriculum is planned to give a comprehensive understanding of man and the universe in which he lives, rather than technical training in highly specialized fields. The College believes that the best preparation for life is liberal education, and it aspires thus to train men and women for leadership in the professions, in business, and in civic affairs.

Pomona believes that a college should be a genuine community in which faculty and students meet easily and frequently and students live, eat, and work together on the campus. To this end, the College maintains a large faculty in relation to its student body (during 1956-57 there will be approximately one faculty member for every ten students) and provides one of the finest groups of dormitories and dining halls in the country. The residential organization of undergraduate life at Pomona is one of the most important features of the total educational program.

The College owes the development of the campus and the growth of its financial resources to the generosity of patrons, friends, and alumni. As an independent institution, without assistance from any governmental or church body, Pomona must rely upon gifts for the expansion of its program and for the increase of its endowment, upon which depends the financial strength of the college. From the contributions of her benefactors, the total assets of Pomona are now over $16,500,000, of which $9,000,000 is in endowment.

THE ASSOCIATED COLLEGES

Pomona College is the original institution in a group of four Associated Colleges, of which the other members are Claremont College, Scripps College, and the Claremont Men's College. A fifth institution, Harvey Mudd College, which will give a pro-

gram in basic science and engineering, has been incorporated and i expected to be in operation by September, 1957. Although eac college is autonomous and independently controlled by its ow Board of Trustees, the four institutions cooperate in their academi programs and in use of certain common facilities.

The group, which represents a combination of English an American practices, arose from the desire of Pomona College t maintain for itself the advantages of a small college and at th same time to provide at Claremont an educational opportunity fo the increasing numbers of young men and women who at the en of World War I were seeking admission to the College.

Under the leadership of the Pomona trustees, the institution no incorporated as Claremont College was established on October 14 1925, for the inauguration of the new plan. It assumed respon sibility of acting as a central coordinating agency, the directio of graduate instruction for the Associated Colleges, and the founda tion of new institutions as they might be required. Claremon College conducts its instructional program under the name of "Th Claremont Graduate School," and the presidents of the under graduate colleges, in addition to their duties in their respectiv colleges, serve in rotation for two year terms as head of Clare mont College with the title of Provost. In addition to its own appointees the faculty of the Claremont Graduate School include most members of the three undergraduate faculties.

An early objective of the group plan was the establishment of a college for women. In September, 1927, Scripps College, named in honor of Miss Ellen Browning Scripps, whose generosity and vision made it possible, was opened as a residence college for 225 women. From the beginning the main feature of its curriculum has been a unified sequence of courses in the humanities.

Claremont Men's College, the third undergraduate institution, was established in 1946 as a liberal arts college training particularly for business and public administration. The College has developed residence and academic facilities for approximately 300 students.

The four colleges cooperate in their academic programs and thus afford for their students many of the advantages of a univer sity center. The undergraduate colleges open their classes without tuition charges to students in the other undergraduate institutions.

Selected courses in the Claremont Graduate School are open to seniors at Pomona, Scripps, and Claremont Men's College.

The colleges maintain a common business office and a joint health service which includes the full time services of two physicians and the operation of a thoroughly up-to-date infirmary. A joint library service purchases and catalogues books for the three libraries. Bridges Auditorium, which seats 2600, is administered by Claremont College for the group.

CLAREMONT

One of Pomona's greatest assets is the town of Claremont, a pleasant residential community of 10,000 which has grown up around the college. Although Pomona College students enjoy in Claremont the relative quiet of a small academic community, they are in no sense isolated from the life of Southern California, for the College is only four miles from Pomona, a city of over 50,000 inhabitants, and thirty-five miles from Los Angeles, with which it has hourly bus connections. Claremont is on the main line of the Santa Fe Railway, and the transcontinental lines of the Union Pacific and the Southern Pacific pass through the city of Pomona. A convenient air service, with connections to Los Angeles, is available at the Ontario airport, only seven miles from the campus.

The Campus

Pomona College occupies about one hundred and twenty acre of which sixty are included in Blanchard Park, the gift c Nathan W. Blanchard, about ten in Alumni Athletic Fiel and fifty in the campus proper. The College centers on Marsto Quadrangle, built and endowed by George W. Marston, 1850-194 distinguished citizen of San Diego, an original trustee of Pomon and for many years president of the board.

The twenty-seven buildings on the campus are heated from central plant which serves the four colleges.

ADMINISTRATIVE AND GENERAL ACADEMIC BUILDINGS

Mary L. Sumner Hall, a hotel which in 1889 became the origina building of the college, was removed from its first site in 192 remodeled for administrative and faculty uses, and named i memory of the wife of Rev. Charles B. Sumner, LL.D., one of th Founders of Pomona College.

Holmes Hall, the first academic building erected by the colleg in 1893, is a memorial to Cyrus W. Holmes, Jr., of Monson, Massa chusetts. Reconstructed in 1916, it is now devoted to recitatio rooms, departmental offices, and an auditorium seating 750.

The Andrew Carnegie Building, a gift of Mr. Carnegie, whicl served as the College Library from its construction in 1908 to June 1952, was remodeled in 1952, for use as a classroom and offic building for the Social Sciences.

The Associated Colleges maintain a joint Business Office i Harper Hall, constructed in 1931.

ART AND MUSIC BUILDINGS

Rembrandt Hall, built in 1914, is devoted to the Department o Art. The upper floor contains studio and work rooms; the lowe floor two galleries, one of which was added in 1937.

The Mabel Shaw Bridges Hall of Music, given by Mr. and Mrs Appleton S. Bridges of San Diego in 1915, in memory of thei daughter who died while a student at Pomona College, offer excellent facilities for the study of music. It contains, in additio

) private studios, an unusually beautiful auditorium seating 800. The Mabel Shaw Bridges Auditorium, also the gift of Mr. and Irs. Appleton S. Bridges in memory of their daughter, was con-:ructed in 1931. It has a seating capacity of 2600, and is adminis-:red by Claremont College on behalf of the Associated Colleges. The Open-Air Theatre, built in 1910, is located in Blanchard Park.

SCIENCE BUILDINGS

earsons Hall of Science, the gift of Dr. D. K. Pearsons in 1898, ontains the laboratories and lecture rooms of the Departments of hysics and Mathematics.

The Frank P. Brackett Observatory, the gift of Mr. Llewellyn ixby, '01, has served the Department of Astronomy since 1908.

The Seaver Laboratory, a separate building in the Observatory rea, was completed in 1950. The dome houses the Clara Whitney hatto Reflector Telescope, and the main floor contains classrooms nd a library.

Harwood Hall, given in 1915 by Mr. A. P. Harwood, contains cture rooms and laboratories for the use of the Department of sychology.

The Mason Hall of Chemistry, the gift of Mr. W. S. Mason, 1 1922, provides ample facilities for the study of Chemistry, and so houses the Department of Geology.

The Crookshank Hall of Zoology, given in 1922 by Dr. D. C. rookshank, is occupied by the Departments of Botany and Zoology.

HONNOLD LIBRARY

he Honnold Library, which was given by Mr. and Mrs. William . Honnold to Claremont College for the Associated Colleges, nce 1952 has housed the Pomona College Library along with the)raries of Claremont Men's College, the Claremont Graduate :hool, and a part of the Scripps College Library.

PHYSICAL EDUCATION AND ATHLETIC FACILITIES

he War Memorial Gymnasium, given to the college by students, umni, trustees, and friends, commemorates the men and women Pomona College who gave their lives in World War I and World Var II. Completed in December, 1950, the building includes an

excellent basketball court with seats for 1200 spectators, a classroo a memorial library, staff offices, and commodious shower and lock rooms.

The Memorial Training Quarters, constructed in 1922 as a m morial to the men of Pomona College who lost their lives in Wor War I, has been incorporated as the east wing of the new Memori Gymnasium. It represents the gift of the parents of one of the men, Sheldon Gerry, '17, supplemented by the gifts of alumn students, and friends.

A swimming pool, of the standard size for water polo, and ful equipped with modern appliances, is open to both men and wome for instruction and recreation throughout the year.

Alumni Field, consisting of about ten acres, has been develope by the alumni into athletic grounds unsurpassed in the Southwe in beauty of setting. First-class tennis courts, an excellent trac baseball and football fields, also hockey and basketball courts a within the limits of the campus. A ticket booth, wall and gate Alumni Field were built in the autumn of 1950, as a gift of the cla of 1916.

The William Renwick Gymnasium, named in memory of a early donor to the college, was first erected as a military barracks i World War I. It provides general facilities for the women's depar ment of physical education.

RESIDENCE AND DINING HALLS FOR MEN

Helen R. Walker Hall, the gift of Helen R. Walker of Glendal California, was opened for use in 1953. Its rooms, grouped aroun three courtyards, accommodate 108 men. Walker Hall also includ a lounge and reception room for the entire men's campus.

The Eli P. Clark residence unit for men, erected in 1929, includ three dormitories with accommodations for 278 students.

The Albert K. Smiley Hall, the first dormitory for men, built i 1908, accommodates sixty-nine students.

Frary Dining Hall for Men, given by Mr. George W. Marsto in 1929 in memory of Rev. Lucien H. Frary, a Trustee from 189 to 1903, seats 375 in the main hall and includes three smaller dinin rooms for special uses.

RESIDENCE AND DINING HALLS FOR WOMEN

arwood Court, constructed in 1921 and named in memory of Mrs. harles E. Harwood, also includes Strong Hall. It accommodates o women.

Florence Carrier Blaisdell Hall, erected in 1936 and named in nor of Mrs. James A. Blaisdell, wife of the fourth President of e College, houses 120 women.

Della Mulock Mudd Hall, which honors the wife of the late eley W. Mudd, a Trustee of Pomona, was completed in the ring of 1947. The building has accommodations for 100 women, ost of them in single rooms.

The College also maintains three smaller residences for women, ldwin House, the Maison Française for students majoring in ench, and the Casa Hispánica for students majoring in Spanish.

Beautiful and commodious dining facilities are available for all men students. Residents of Harwood Court are served by the relia Squier Harwood Memorial Dining Hall built in 1931.

The Mary McLean Olney Dining Hall, constructed in 1936, has commodations for 120 students.

Jessie E. Gibson Dining Hall, built in 1949 in honor of the former an of Women, serves the students living in Blaisdell Hall and dd Hall.

EDMUNDS UNION

e Charles K. Edmunds and Katharine P. Edmunds Student ion, which honors the late fifth President of the College and his e, provides a social center for all students and an attractive lroom in which all formal dances are held. This building, made sible by the gifts of many parents supplemented by funds from Associated Students and the bequest of the late Florence Riley, s built in 1937 and houses student offices, including publications, manager's office, and the Cooperative Store.

The east wing to Edmunds Union, which houses the fountain l sandwich facilities, and also includes a full basement for recrea- nal use, was completed in January, 1951.

HEALTH FACILITIES

Memorial Infirmary, given in 1931 in memory of Colonel See W. Mudd, is administered by Claremont College and is opera jointly for the benefit of students in all the Associated Colleges Claremont. Twenty beds are available. The Infirmary is situated Amherst Avenue, north of Foothill Boulevard.

The Baxter Medical Building, the gift of Doctor and Mrs. Geo E. Baxter to Claremont College, serves the students of the Associa Colleges. It provides an office where the College Physicians a a nurse are available for consultation and treatment for mi ailments.

OTHER FACILITIES

The President's House at 345 North College Avenue was the g of Dr. D. K. Pearsons. It was constructed in 1897, and has b the home of all Presidents of the College since that time.

A replica of the original house in Pomona in which the Coll first opened in September, 1888, was erected on the campus in 1 through the generosity of an anonymous donor.

The College operates its own independent deep well water supp the gift of Edward P. and Mary G. Bosbyshell.

THE FACULTY HOUSE

Pomona shares with the other associated colleges the beauti Faculty House which the late Harvey S. Mudd and Mrs. Mu and the Seeley W. Mudd Foundation gave to Claremont Colle for the use of the faculties of all the colleges at Claremo Located just south of the Honnold Library, the Faculty Hou provides an ideal meeting and recreational center for faculty grou

THE CLAREMONT INN

The Claremont Inn, beautifully located on College Avenue oppos the campus since 1906, is the guest house of the colleges and co munity, and is owned by Pomona College. Parents and friends a invited to use the facilities of the Inn for longer or shorter perio during visits to Claremont. Public and private dining rooms a accommodations for sixty guests under both the American a European plans are provided.

Admission

STUDENTS ARE ADMITTED to Pomona College upon evidence which satisfies the Committee on Admissions that: (1) the applicant possesses the necessary preparation and ability to rry successfully the academic program offered here, and will tually use them to that end; (2) the College, with its program d traditions, and the applicant, with his capacities, interests and eds, are mutually well suited to each other.

The Committee tends to judge the fitness of an applicant in terms reasonably definite academic prerequisites but it makes every fort to form judgments on the basis of the total picture rather an in terms of narrowly technical requirements.

Any person interested in preparing for Pomona, or any school ficial who is responsible for directing the preparatory programs students is invited to call on the Dean of Admissions at any ne regarding the acceptability of candidates or for advice on ecific programs.

For further information, write to Office of Admissions, Sumner all, Pomona College, Claremont, California.

ADMISSION TO FRESHMAN STANDING

ıe College does not require any particular pattern of secondary hool courses, but assumes candidates will have taken a college eparatory course. Under ordinary circumstances they are advised complete at least three years of satisfactory study in English. Two ars of mathematics are advised for all candidates. Those who an to study mathematics or the physical sciences in college should ve at least three years or more, including trigonometry. (See page .) Foreign language credit is not required for admission but for ncentration in many fields a reading knowledge of at least one reign language is essential. It is much to the advantage of a student begin the acquisition of this knowledge before entering college d this is strongly advised. Two or three years in social studies and o or three in sciences are also advised. The major attention is ven to the quality of preparation rather than to the exact arrange- ent of subjects.

It is normally assumed that candidates will have received a high hool diploma. Students from foreign countries or those who are

following unusual patterns of preparation may submit other e dences of their readiness to undertake college work.

All freshman candidates are required to take the Scholastic Ap tude Test administered by the College Entrance Examination Boa (See page 32 for further information.) This requirement does n lessen the importance of the school record, the personal ratings a personal interviews. The test results will be used in the academ advising of freshmen and replace some of the aptitude tests p viously given during the registration period.

It is recommended that applications be filed at the beginni of the senior year in high school. The Scholastic Aptitude Te should be taken either in January or in March and the candida is responsible for registering for this with the College Entran Board. The regular selection of new students will be made fro applications received on or before March 15, provided candidat have taken the Scholastic Aptitude Test in March or earlier.

Applications will be accepted between the dates of March 15 a August 15 from candidates who have already taken the Scholas Aptitude Test or who plan to take it on May 18 or August 14 b there is no assurance that there will still be vacancies at that tim These applications will be acted upon as promptly as possible.

Since there are more applicants than can be accepted, t Committee attempts to select the strongest candidates with litt regard to the chronological order in which applications are receive In all cases admission is granted subject to evidence of satisfacto physical condition on the part of the candidate.

ADMISSION TO ADVANCED STANDING

In considering applications for advanced standing the Colle follows the general policy used for freshman candidates. It requir an official transcript, or transcripts, of all college work for which t applicant has been previously registered. These transcripts mu show the detailed record in all secondary as well as all collegia institutions attended. The College further requires honorable di missal from the previously attended institution with an avera grade of C or better in liberal arts type of courses taken accredited collegiate institutions, together with recommendatio from the proper college officials. In addition all candidates a required to submit scores on the Scholastic Aptitude Test give by the College Entrance Examination Board. It is not necessary

peat the test if it was taken during the Senior year in secondary hool.

Credit allowed for work taken in other institutions will be :termined by the Classification Committee after the candidate has :en accepted.

ADMISSION TO SPECIAL CLASSIFICATION

ature students, particularly those equipped for advanced studies, ay be admitted as special students to courses for which, by ability id preparation, they may be fitted. Special students are not candiites for a degree, though students admitted to this classification ay be accepted later as candidates for a degree.

COMBINED PLANS WITH MASSACHUSETTS INSTITUTE OF TECHNOLOGY AND CALIFORNIA INSTITUTE OF TECHNOLOGY

long with several other liberal arts colleges, Pomona has an rangement with the Massachusetts Institute of Technology id with the California Institute of Technology whereby qualified udents may receive the Bachelor of Arts degree from Pomona id a Bachelor of Science degree from M.I.T. or C.I.T. after a mbined five-year program, of which the first three years are ken at Pomona. Without the combined plan at least six years ould usually be required to complete the work for both degrees. udents under the combined plan will be accepted at the Massausetts Institute of Technology or the California Institute of echnology without examination if recommended by Pomona. For tailed program see page 70.

APPLICATION PROCEDURE

pplication for admission to Pomona College must be made on e form furnished by the college and all credentials must be filed ith the Committee on Admissions. The forms and credentials quired are:

Application Form I. Including $5.00 fee, which is not refundable. Make checks or money orders payable to Pomona College.

Two Personal Rating Scales, Form II. Confidential reports by the principal or other school official, and by a classroom teacher, sent by them to the Committee on Admissions.

A Statement of Qualifications. The Committee seeks the most complete possible picture of each candidate and to this end

requires a personal, autobiographical statement to supplemer the other information. Some or all of the following poin may be discussed although the candidate need not consider th an outline to be followed: (1) your preparation or backgroun for college other than that which will be evident from yo school record; (2) your major aptitudes and interests either an academic or non-academic nature; (3) your purposes going to college; (4) your particular reasons for choosin Pomona College. It is permissible to discuss the paper wi others but the writing, both as to ideas and the form in whic they are expressed, must be the candidate's. The letter may typed. The length should not exceed 1,000 words.

4. *Official Transcript* of high school record to date. At the time selection of candidates, work in progress will be considered fulfillment of requirements, and admission will be grante subject to the filing of a final transcript showing the satisfacto completion of all secondary school work. The transcript for ordinarily used by the school is satisfactory. It should include a interpretation of the grading system. It should not be sent unt the first half of the senior year has been completed.

5. *Medical Certificate,* signed by a licensed M.D., on a form fu nished by the college after admission has been granted pr visionally. The college reserves the right to reject students f health reasons.

6. *Room Deposit* of $50 due within thirty days of date of accep ance. No refund of the room deposit will be made if a stude withdraws before entrance. (See page 36 for regulations co cerning the refund of this deposit.)

   Failure to make this payment results in the cancelling admission. Candidates on the alternate list for whom places a not provided will have the entire deposit refunded.

SCHOLASTIC APTITUDE TEST

All candidates for admission to Pomona College are required take the Scholastic Aptitude Test administered by the Colleg Entrance Examination Board and are held responsible for makin application to the Board. Students who plan to enter in Septemb are advised to take the test in December, January or March. Studen

The Albert K. Smiley Residence Hall for Men

"Patio Women's Residence Halls"

who plan to enter in February should take it in May, August or December. Either of the three dates is equally satisfactory.

The College Entrance Examination Board will hold five complete series of examinations in 1956-57. Application to take an examination must be filed three weeks in advance of the examination date. The schedule for the examinations with the dates of registration is as follows:

Examination Date	*Regular Registration Closes*	*Late Registration Closes*
December 1, 1956	November 10, 1956	November 24, 1956
January 12, 1957	December 15, 1956	January 5, 1957
March 16, 1957	February 23, 1957	March 9, 1957
May 18, 1957	April 27, 1957	May 11, 1957
August 14, 1957	July 24, 1957	August 7, 1957

For admission to Pomona College applicants are required to take the Scholastic Aptitude Test only. It is not necessary to take the Achievement Tests.

Copies of the Bulletin of Information may be obtained without charge from the College Entrance Examination Board. The Bulletin contains rules regarding applications, fees and reports; rules for the conduct of the tests; advice to candidates; descriptions of the tests; sample questions; and lists of examination centers.

Candidates must secure application forms from the College Entrance Examination Board and file completed forms, accompanied by the examination fee of $6.00, at one of the offices described below. If possible, applications should be filed several weeks in advance of the closing date for regular registration for an examination.

Students who wish to take the examinations in any one of the following western states, territories, and Pacific areas: Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming, Alaska, Hawaii, Mexico, Alberta, British Columbia, Australia, and all Pacific islands including Formosa and Japan, should address their inquiries and send their applications to College Entrance Examination Board, P. O. Box 9896, Los Feliz Station, Los Angeles 27, California.

All others should write to College Entrance Examination Board, P. O. Box 592, Princeton, New Jersey.

Expenses

THE EDUCATIONAL and general expense of operating the Colleg is defrayed by payments from students, income from endow ment funds, and gifts from alumni, friends, and corporation The budget for 1956-57 provides for an expenditure of $1512 pe student. Of this amount, approximately $841 will be paid by th student in tuition and fees, and $671 must be provided from endow ment income and gifts.

The College reserves the right to change any of the following fe at any time should conditions make it necessary.

General Fees

TUITION, including health service, season tickets for Artist Course and Athletic Events	per semester	$400.(
ASSOCIATED STUDENT DUES	per semester	10.(
GRADUATION FEE		10.(

Residence Fees

ROOM AND BOARD	per semester	$375.(
(For men living in Smiley Hall the charge is $335.00 per semester. In Clark Hall a few rooms with fireplaces are available for men, for which the charge is $398.00 per semester. Smiley Hall is not open to freshmen.)		
ROOM DEPOSIT, applicable on payment of bills for final semester of residence. (See pages 32, 36.)		50.(
RESIDENTIAL BREAKAGE DEPOSIT, held until a student withdraws from college. (See page 36.)		10.(

Departmental Fees

For exact fees in science and music see Courses of Instruction.

LABORATORY FEES	$ 2.00 to 10.00
LABORATORY BREAKAGE DEPOSITS	4.00 to 10.00
FEES FOR APPLIED MUSIC	25.00 to 60.00
PRACTICE FEES, APPLIED MUSIC	2.50 to 15.00

Fees for Special Privileges

LATE REGISTRATION (See page 81.)	$2.00 to 10.00
CHANGE OF PROGRAM (See page 81.)	3.00
SPECIAL EXAMINATIONS	2.00
CAMPUS FEE FOR AUTOMOBILES (See page 63.)	2.00 to 4.00

Fees for Part-time Students

SPECIAL TUITION FOR STUDENTS CARRYING LESS THAN TEN UNITS OF WORK	per unit $40.00
AUDITOR'S FEE	per course $10.00

RESIDENCE FOR MEN

The College is equipped with residence and dining hall facilities to accommodate most men students. It is expected, and the College may require, that men not actually living at home will room and dine in college halls. All freshmen are required to room on campus unless, for special reasons, they are authorized at the time of admission to room at home or near the campus. All the residence halls have both single and double rooms. Students living at home or working for board or room may make special arrangements with the Dean of Men.

Residential campus privileges are provided only on the basis of an inclusive charge varying according to location of room and including board. The standard charge in Clark and Walker Halls is $375.00 per semester, but a few rooms with fireplaces are available at $398.00. The price for rooms in Smiley Hall is $335.00 per semester. Smiley Hall is open only to upperclassmen. These charges include necessary furniture, rugs, bed linen and towels, the laundering of the same and the care of rooms. Linens will be changed and beds made in all halls once a week. On the remaining days men will make their own beds. The only articles to be furnished by the students are blankets, spreads for single beds, and study lamps.

Off-campus housing arrangements for unmarried students must be approved in advance by the college. The Office of Dean of Men maintains a list of residences, with description of accommodations available, rates, and similar information.

RESIDENCE FOR WOMEN

Women students are expected to room in residence halls and board at college dining rooms. Freshmen are normally assigned to Harwood Court. Students living at home or working for room or board may make special arrangements with the Dean of Women.

Harwood Court, Blaisdell Hall, and the three College Houses have both single and double rooms, as well as suites. Except for a few double rooms, single accommodations are provided in Mudd Hall. Each room is adequately furnished; the only articles to be

provided by the student are linen, blankets, and spread for a single bed. Residential campus privileges are provided on the basis of an inclusive charge of $375.00 per semester.

RESIDENCE REGULATIONS

The residence privilege does not include the use of rooms during vacation periods. The residence halls are open for new students the Friday before the opening of the college year and for returning students the day of registration. The residence and boarding privileges end 24 hours after the last examination at the end of each semester for all students except seniors and those asked by the college to remain through Commencement. The residence and dining halls are closed the day after Commencement.

Each student is required to make a deposit of $50 for a room in the dormitory. This deposit is held by the college until the student's final semester of the Senior year in residence, when it is applied on his college bills for that semester. The deposit is refunded at the time of withdrawal to students who withdraw before graduation, provided they have been in residence for one semester or more and give notice of withdrawal not less than sixty days before the opening of the term for which the student is withdrawing.

A residential breakage fee of $10 is required from each student. This is credited to the student's account on graduation or withdrawal, if there are no unpaid charges for individual or communal damage to College property.

The College reserves the right to dismiss from a residence hall without rebate of room rent and to withdraw dining hall privileges in the case of any student who becomes an undesirable occupant.

The College may dispose of any articles left by students for more than six months.

BILLS

All college bills are due each semester in advance and must be paid by the student at the time of registration. Students wishing to arrange for payment by installments should confer with the Bursar before entering, preferably in the summer preceding registration.

A service charge for deferment will be made as follows:

First semester

Balance payable on or before November 1	$1.50

Balance payable one-half November 1 and one-half December 1	2.25
Balance payable one-third November 1, one-third December 1, and one-third January 1	3.00

Second semester

Balance payable on or before March 1	1.50
Balance payable one-half March 1, one-half April 1	2.25
Balance payable one-third March 1, one-third April 1, and one-third May 1	3.00

It is expected that payment of installments will be made on or before due dates; failure to do so without the approval of the Bursar will result in an additional service charge.

No refunds are made to those leaving before the end of the semester except that in the case of those leaving before the middle of the semester because of illness one-half of the tuition and laboratory fees are refunded and in the case of those dropping out for good cause within a week of their registration all but $25.00 is returned. No refund is made on a room payment unless the room is re-rented to someone not then rooming in a college residence hall.

Students with unpaid bills are not given honorable dismissal or graduated. Seniors must settle all college bills and library obligations by four p.m. of the fourth day preceding Commencement if they are to receive their diplomas with their class.

Scholarships and Student Aid

The college offers an extensive scholarship and student aid program and approximately $153,000 will be available to Pomona students for scholarships, fellowships, grants-in-aid, and prizes during 1956-57. These funds are derived from endowments for scholarships and student aid, from individual and corporation donations, and from the annual Alumni Fund.

Scholarships are awarded to students who achieve outstanding academic records and who need financial assistance to attend college. In making awards the Committee on Scholarships considers the candidate's promise in intellectual fields, his force of character and physical vigor, his probable interest in different aspects of the college community, and his leadership qualities.

Pomona College has adopted, with certain other West Coast colleges and universities, a joint policy aimed at achieving uniformity and equity in the distribution of scholarship funds to entering students. All these institutions make a distinction between 1) recognition of academic honors and achievement, and 2) recognition of need for financial assistance. Honors at Entrance are awarded in recognition of distinguished academic achievement. They are awarded without regard to need and carry no monetary grant. No special application is required for Honors at Entrance because all high ranking candidates for admission are considered for these awards. Scholarship grants are awarded in recognition of need for financial assistance. The academic record and apparent promise of candidates will determine the selection of those to receive these scholarships, but the size of the stipend will be determined in accordance with need. Entering students in need of assistance should apply for scholarship grants by filing an application on forms provided by the College by March 1, 1957.

SCHOLARSHIPS FOR ENTERING STUDENTS

FOUR-YEAR SCHOLARSHIPS

George F. Baker Four-Year Scholarships: Pomona is one of twelve colleges to receive grants from the George F. Baker Trust of New York, for the purpose of awarding scholarships to outstanding young men. The plan of the Baker Trust is to seek out future leaders of American society and to

nake it financially possible for them to attend college. Four or more scholarhips will be awarded with stipends which may go as high as $1250 annually, ccording to financial need. Open to men students only.

The Union Carbide Scholarships: Pomona College is one of a group of nstitutions participating in a nationwide scholarship plan established in 1953 y the Union Carbide and Carbon Corporation. These scholarships are esigned to give aid to promising men and women who have an ambition to ollow careers in business or industry. Three scholarships covering the comlete cost of tuition for the full four-year academic course, with a reasonable llowance for necessary books and required fees, are available in each entering lass at Pomona. Applicants must have good scholastic standing, be recomnended by their schools, and either need financial assistance or possess extraorinary talent or ability.

Lockheed Scholarships: The Lockheed Aircraft Corporation has established t Pomona a four-year scholarship for students concentrating in a subject pplicable to a career in the aircraft manufacturing industry. Such fields of oncentration may be either in the sciences or the social sciences. Lockheed cholarships include full tuition and $500 a year toward other college expenses.

Alumni Four-Year Scholarships: Five or more scholarships will be awarded om the Alumni Scholarship Fund with stipends which may go as high as 1,000 annually according to financial need. These scholarships are awarded ot only on the basis of the academic record but also on the all around contriution to the life of the secondary school and community, and the promise of ich contribution in college and afterwards. Open to men or women students.

Pacific Employers Insurance Company Scholarships: A four-year scholarship n each entering class, for a young man planning to enter any field of business, as been established at Pomona College by the Pacific Employers Insurance ompany. Stipends are based on financial need and may be as much as $1000 nnually.

Maria K. Lloyd Scholarship: This four-year scholarship is available to an utstanding candidate who is now a resident and citizen of Greece or Turkey. he amount of the award will be determined by the student's need. It may over as much as all college expenses for the full four years.

The Frank H. Merrill Memorial Scholarship: A four-year scholarship, to be warded to a student whose interest is primarily in the field of science, inudes full tuition of $800 plus as much as $500 a year toward other college xpenses. This scholarship has been established by Mr. Willis H. Merrill, '30, n memory of his father.

ONE-YEAR SCHOLARSHIPS

he following scholarships are available to candidates for admison to the freshman class in the year 1957-58. Half of the stipend available in the first semester and half in the second semester of

the freshman year. The award for the second semester is normall made only if the recipient is in good standing and has maintaine a scholastic record of B or better. The stipends for all scholarship will be determined according to financial need.

The Henry E. Storrs and Julia A. Storrs Scholarships: Two scholarship with maximum stipend of $800 each, open to men.

The Margaret Burton Harwood Scholarships: Two scholarships, wit maximum stipend of $800 each, open to women. Two scholarships with max mum stipend of $800 each, open to both men and women.

The Thomas J. Dowling Scholarship: One award of $525, open to a man o woman.

The Henry G. Brainerd and Fannie Howard Brainerd Memorial Schola ships: Two awards, with maximum stipend of $800 each, open to men an women.

California Scholarship Federation Award: A scholarship with maximur stipend of $800 given by Pomona College to a man or woman nominated b the California Scholarship Federation.

Chemistry Contest Scholarship: A scholarship with maximum stipend o $800 is offered by Pomona College to a winner in the annual High Scho Contest sponsored by the Southern California Section of the America Chemical Society. The recipient must be among the top fifteen contestant and must satisfy all entrance requirements of the College.

The Physics Contest Scholarship: A scholarship with maximum stipend o $800 is offered by Pomona College to a winner in the annual High Scho Contest sponsored by the Southern California Section of the America Association of Physics Teachers. The recipient must be among the top fiftee contestants, and must satisfy all entrance requirements of the College.

JUNIOR COLLEGE SCHOLARSHIPS

The scholarships listed below are available for candidates fro Junior college, for the year 1957-58, half of the stipend being avail able in the first semester and half in the second semester of th year. The award for the second semester is made only if the recipie is in good standing and has maintained a scholastic record of B o better. Candidates for Junior College scholarships are required t take the Scholastic Aptitude Test given by the College Entranc Board. For further information see pages 30 and 32 in this catalo The following scholarships are reserved specifically for applican from Junior College. In addition, applicants from Junior Colleg may also be considered for awards listed under General Scholarship

Two-Year Scholarships: One or more, with maximum stipend $1000.

One-Year Scholarships: Two or more awards with maximum stipend of ,000 each.

Alpha Gamma Sigma Scholarship: One award with maximum stipend of)0 given by Pomona College to a candidate who is recommended by Alpha ımma Sigma.

GENERAL SCHOLARSHIPS

ıe following scholarships are open to both entering and matricu-ed students at Pomona College.

The Clara S. Ratekin Scholarships: The late Mrs. Clara S. Ratekin of Covina ; established a fund of $372,058, the income from which is to be used to ray the educational expenses of worthy young men and women. These ards are open to students in any class.

The Amélie Augustine McAlister Scholarships: The late Mrs. Amélie :Alister Upshur of San Marino established at Pomona a fund of $100,000, e income from which provides scholarships for women. McAlister Scholar-ps are available to women in any class who need financial assistance to end college.

The James Irvine Scholarships: A scholarship fund of $60,000 has been ablished by the James Irvine Foundation, the income from which will be ed to assist both men and women students at Pomona College in paying ir tuition, board, lodging, and other expenses incidental to their education the College. These scholarships are limited to students residing in the ıte of California, preference to be given to those in Orange County.

The Clayton A. and Lottie Culler Langworthy Memorial Scholarships: A ıolarship fund of $25,957 has been established by the late Mrs. Clayton A. ngworthy, the income from which is to be used for the education of worthy ıng persons with ambition and ability who otherwise would have to forego education.

Standard Oil Company Scholarships: A scholarship of $750 for a student Engineering and Physical Science is made available for the academic year 56-57 by the Standard Oil Company of California. Two Standard Oil Lead-hip Scholarships of $400 each are available for 1956-57 and 1957-58 to dents in any undergraduate class, judged according to leadership, financial ed, and scholastic rating. No student is eligible for more than one year.

The Charles Harvey Rodi Memorial Scholarship: A scholarship of $1000 ablished by Mrs. Lucina Rodi Updegraff, is available annually to a man dying toward a career in medicine. The award is made on the basis of lity and need, and may be available to the same student for more than e year, all at the discretion of the Committee on Scholarships.

The Mississippi Scholarship: An endowed scholarship, with income approximately $900 annually, has been established anonymously as a tribu to the donor's native state. Open to a man or woman in any class.

The Kemper Foundation Scholarship: One two-year scholarship of $800 p year is available from the James S. Kemper Foundation for a student wl intends to enter the field of insurance administration. The scholarship available to students entering from Junior College or to students at Pomo College at the beginning of the junior year. The foundation will assist t incumbent in obtaining vacation employment with a casualty or fire insuran company, and on graduation will assist him in obtaining regular employme at current salary rates with a casualty or fire insurance company, in the e pectation that such employment will continue for at least two years. A furth grant may be available for a year of post-graduate study.

The Frank Wilson Stafford and Julian Tate Stafford Scholarship: A m morial scholarship of $800 per year, available to a man in any class, has be established by Mrs. Grace T. Stafford of Pasadena.

The Olivia D. Baker Scholarship: The Olivia D. Baker Scholarship has be established in memory of Mrs. Olivia Dennison Baker. The scholarship is op to students of a minority race with preference given to negro candidates. T amount of the award will be determined by the student's need, up to $1,0 annually. It is open either to men or women, to freshmen or transfer studen

The George Curtis De Garmo Scholarship: One award of $800 is availab from a fund established by the late George Curtis De Garmo of Los Angel

The A. L. Hobson Memorial Scholarship: A scholarship of $630 open to man student from Ventura County, California, who needs financial assistan to attend college. The recipient may be a member of any class at Pomona.

The Arthur Noble and Frances W. Noble Scholarship: A scholarship $550, endowed by the late Mr. and Mrs. Arthur Noble, is available annual to a student in any class who needs financial assistance.

The Paul Mylrea Holden Scholarship: An annual scholarship of $500 esta lished by Mrs. Susie Mylrea Holden in memory of her son, is open to studer who need financial help. It may be awarded to a member of any class Pomona.

The Everett S. Olive Orchestral Scholarship: An annual scholarship of $2 is awarded to a qualified student on the basis of musical ability on an orch tral instrument. It is endowed anonymously in tribute to Everett S. Oli Emeritus Professor of Piano, whose interest has been an important factor the development of the orchestra. It is normally given to a freshman. T scholarship is awarded on the joint recommendation of the Music Departme and the Committee on Scholarships. An audition is normally required.

Orchestral Scholarship: An annual scholarship of $250 to a qualified stude who will continue study of his instrument in the Pomona College Music D partment. Awarded on the basis of musical ability and orchestral competen Will normally be given to a Freshman after audition by the Music Departme

'he Walter H. Parsons and Hazen M. Parsons Memorial Scholarship: A olarship of $200 given in memory of Walter H. Parsons, '04, and Hazen Parsons, '09, is available annually to a man or woman in any class who ls financial assistance to attend college.

'he Donald Houghton Bacon Scholarship: The parents of Donald H. on, who died at the college in 1948, have established in his memory a o scholarship fund, the income of which provides an annual award to a rving student who prepared for college at the Tucson, Arizona, High ool, and who is recommended by the Superintendent of Schools in son. If in any year no graduate of the Tucson High School is recomded for the award, it may be made to a senior student at Pomona Col-, who upon recommendation of the faculty is considered the outstanding nber of his class with respect to excellence in class work, athletic ability, general participation in campus activities.

SCHOLARSHIPS FOR MATRICULATED STUDENTS

e Scholarships listed below are available during 1956-57 for lents who attended the college during 1955-56, and who have sfied the matriculation requirements. They are not available to ering students. These scholarships are awarded in open competi- but normally require a grade point average of approximately . Half of the stipend is available in the first semester and half in second semester of the year. The award for the second semester ormally made only if the recipient is in good standing and has intained a scholastic record of B or better. The degree of financial d is taken into account in the awarding of all scholarships. Appli- ons for these scholarships should reach the committee by May 15.

he Frank G. Butler Scholarships: Five scholarships with maximum stipend f 800 each, awarded to sophomores, juniors, or seniors who have achieved holastic distinction.

he Olivia Phelps Stokes Scholarships: Three scholarships with maximum end of $800 each.

'he Haynes Foundation Scholarships: A tuition scholarship of $800 and a on-subsistence scholarship of $1250, have been established at Pomona ege by the John Randolph Haynes and Dora Haynes Foundation, to assist rving senior students in the Social Sciences. The criteria of award include ptional scholastic record, character, promise of professional growth, in- ry, and need. It is also desired that the candidates obtain some kind of rnship experience in their chosen fields, or be required to write a special or thesis. In addition to these awards, the Haynes Foundation has made rther grant of $2100 which will be available to advanced students in the al Sciences for 1956-57.

Bertha Lebus Scholarship: A scholarship of $725 endowed by Miss Be Lebus is available annually to a matriculated student attending the coll The recipient must be a person who shows a high degree of promise who needs financial assistance.

The Kappa Delta Honor Scholarship: An annual scholarship of $ established in 1926 by alumni members of Kappa Delta Fraternity and adi istered under a special committee, is awarded at the beginning of his se year to an outstanding all-around man, who shows qualities of chara intellect, leadership, sportsmanship, and proficiency in athletic pursuits. recipient must have been in residence during all three lower years, and r rank in the highest third of all the men in his class.

The Phi Beta Kappa Scholarship: A scholarship of $200 endowed by Pomona Chapter of Phi Beta Kappa is awarded at the beginning of the sec semester to a senior who has been in residence for three years at Pomona who is selected for the high quality of his scholarship and his promis future distinction. The award is open to both men and women.

The Nu Alpha Phi Memorial Scholarship: A scholarship of $725 endo by the members of Nu Alpha Phi Fraternity and awarded to a man at beginning of his junior year. Selection is made by a special committee on basis of outstanding character and real financial need, the latter part determined by records of student employment during the school year. G in memory of the Fraternity's losses in World War II.

The Flora Sanborn Pitzer Memorial Scholarship: A scholarship of $575 f The Sanborn-Pitzer Foundation, established by Russell K. Pitzer of the of 1900 in memory of his wife, is available to a woman student in the so more, junior, or senior class who has shown scholarship ability and wh quires financial assistance to remain in college.

The Alice M. Sanborn Scholarship: A scholarship of $500 annu endowed by the late Alice M. Sanborn, is available to a man selected by Scholarship Committee as a representative student at the college, not n sarily of the highest scholarship standing, but who has high moral chara The candidate shall be selected at the beginning of his junior year, and s receive the scholarship for both his junior and senior years in college, vided he shall remain, in the opinion of the Scholarship Committee, wo of continued assistance.

The Malcolm Eversole Memorial Fund: A scholarship providing tuition for a man in the Junior Class to be nominated to the Scholar Committee by the President of the College at the end of the nominee's sec year in Pomona College. The selection is based not on scholastic rank but on the possession of those personal qualities which indicate a high de of promise in a student of outstanding character.

The Llewellyn Bixby Memorial Scholarship: A scholarship of $500 avail annually to a man or woman who has completed the freshman yea Pomona College and who shows proficiency and genuine interest in sci Given by Mrs. Llewellyn Bixby, '01, in memory of her husband.

ndrew Acker Sugg Memorial Scholarship: A scholarship of $800 avail- annually to a junior or senior man who shows promise of outstanding s in the field of science. This fund has been established by Mrs. Andrew er Sugg in memory of her husband.

he Andrew Fletcher Garst Memorial Scholarship: A sum of $400 will be rded annually at the beginning of the senior year to a deserving man or an student who has benefitted most from his college experience of three s and who has also contributed substantially to the life of the college. selection of the candidate, whose major should preferably be in music, or science will be made by a committee of nine students and the Deans len and Women. This award is given annually by friends in memory of rew Fletcher Garst, a member of the Class of 1952.

he Associated Men Students Scholarships: The Associated Men Students of ona College offer annually two awards of $100 each. Each award is given man student at the end of his Junior year, one to the man who best plifies a combination of scholarship with leadership and proficiency in tics, and the other to the man who best exemplifies a combination of larship with leadership and attainment in extracurricular activities. To be idered for either award a man must have maintained at least a B age in all his college work, and must have been in residence at Pomona at least one year.

he Blair Nixon Memorial Award: An annual award of $150 is made from nd established by his parents and friends in memory of Blair Nixon, '33, senior varsity letter winner who exemplifies the high ideals of the college cholarship and sportsmanship. The award is made on nomination of a ial committee and is presented to a Pomona man at the beginning of his or year.

he Jessie Gibson Scholarship Fund: An Associated Women Students d for scholarship awards to members of minority groups who exhibit qualities of character, leadership and scholarship. The awards will dministered by the A.W.S.

DEPARTMENTAL SCHOLARSHIPS

ART

he Hannah Tempest Scholarships: Two scholarships of $125 each are rded annually to a man and a woman studying art, in accordance with itions laid down by the donor, Mrs. Hannah Tempest Jenkins.

ASTRONOMY

he Shatto Memorial Scholarship: A scholarship of $250 is provided ually from the income of the Walter O. Shatto and Clara R. Shatto morial Funds for a qualified upperclassman or graduate student majoring ne Department of Astronomy, the candidate to be selected on the joint nmendation of the department and the Scholarship Committee.

GEOLOGY

The Richard E. Strehle Memorial Scholarship: A scholarship of $375 esta lished in memory of Richard E. Strehle, '41, who was killed in action in t Philippines in World War II, is awarded annually to a junior or senior m with the physical, mental and moral qualities desirable in a field geologi Choice is made near the end of the sophomore or junior year, on nominati by the Geology Department to the Scholarship Committee. The award m be withheld in any year, and additional awards may be made in years wh extra income is available.

ECONOMICS

Crown Zellerbach Foundation Scholarship: A scholarship of $900 for t academic year 1956-57 will be given by the Crown Zellerbach Foundation a junior or senior student majoring in the field of Economics.

MATHEMATICS

The J. Carlyle Bryant Scholarship: Established by Mr. and Mrs. Geor W. Bryant in memory of their son, J. Carlyle Bryant, '45. Available to outstanding, all-around man in any class at the college, who possesses qua ties of character, scholarship, and athletic ability, and who is particularly terested in mathematics. The amount of the scholarship varies from $500 $900, depending on the need of the recipient. If there should not be a prope qualified candidate in mathematics, the scholarship may be awarded to student in one of the other physical sciences.

MILITARY

The advanced course of the Reserve Officers' Training Corps consists Military Science III and IV. Students who have completed the basic cou (Military Science I and II) or who are accorded equivalent credit beca of military or naval service are eligible for selection to the advanced cour Students selected for the advanced course enter into an agreement to co plete the two year course and attend one summer training camp of six we duration. In consideration of this agreement, students receive from the Unit States Government cash allowances equivalent to a scholarship of about $320 a year. All necessary expenses in connection with camp, including transp tation to and from the camp, food, housing, uniforms and medical attenti are provided by the Government.

Advanced course ROTC students whose attainments in military science outstanding may be designated by the Professor of Military Science a Tactics as "Distinguished Military Students." A number of distinguish military graduates of Senior ROTC Units may be selected upon applicati for direct Regular Army appointments.

The number of students admitted to the advanced course is controlled the needs of the Army and the number recommended by the college authori as being well-qualified to pursue the course. The selection of students enrollment in the advanced course is based upon excellence in military train and suitability for appointment as second lieutenants in a branch of the S. Army Officers' Reserve Corps. Students who present evidence of ab

rage records while in military or naval service, or who have distinguished mselves in the basic ROTC course of this or other schools will receive cial consideration in the selection of those students to be enrolled in the anced course.

MUSIC

he Richard N. Loucks, Jr. Music Scholarship: A scholarship fund of ,000 has been established by Mr. Benjamin M. Stansbury, of La Canada, in or of Richard N. Loucks, Jr., the composer of *Hail, Pomona, Hail.* The me is awarded annually to a student majoring in applied music.

he Kate Condit Memorial Scholarship: A scholarship of $100, endowed by late Mr. and Mrs. A. P. Condit, is awarded annually to an outstanding lent in the Department of Music.

he William J. Howard Memorial Scholarship Fund: Established by nni and friends in memory of William J. Howard, '14. A scholarship of o is awarded annually to a student for lessons in applied music.

he Presser Foundation Scholarships: A fund of $250 is given to the college ually by the Presser Foundation of Philadelphia, for the assistance of sic students. Scholarships from this fund are awarded by the Music partment. It is planned for students who are interested in music education ther advanced work in music.

pplied Music Scholarships: Ten awards of $170 each are available for the lemic year 1956-57 to cover cost of lessons in applied music. These awards open to students in any class.

PHYSICS

he Richard P. Edmunds Memorial Fund provides a scholarship of full ion for an upper division man student (preferably one who has attended ona during the first two years) nominated to the Scholarship Committee the Professor of Physics.

RELIGION

he Claremont Church Scholarship: A scholarship of $250 to be awarded year to an upperclass student planning on life-time Christian service or senior about to enter seminary training. Choice is made in the spring by Scholarship Committee upon nomination from the Department of Religion ig in consultation with the minister and a member of the World Service mittee of the Claremont Church.

FELLOWSHIPS AND SCHOLARSHIPS FOR GRADUATE WORK

following awards may be made for 1957-58 to graduating ors if qualified applicants appear. Applications for these fellow-s should be in the hands of the Committee on Scholarships by rch 15, 1957 except in the case of the Harsh Fellowship, applica- for which should be made to the Claremont Graduate School.

The Henry Martyn Bracken Foundation and the *Emily Robinson Brack Foundation* provide two or more fellowships for graduate work in t Claremont Graduate School. When in any year a graduating senior does n qualify for the award, the stipend may be given to an undergraduate stude in Pomona College.

The C. E. and Bertha M. Harsh Memorial Scholarship Fund in the Cla mont Graduate School provides income for scholarship aid to Pomona C lege graduates. Although the Board of Fellows is empowered to make gra of the income for the assistance of any capable and promising graduates Pomona College attending the Claremont Graduate School, it is the preferen of the donors that first consideration should be given to those who are doi advanced work in the Fine Arts.

The William Lincoln Honnold Foundation provides a fellowship with stipend determined by the committee of award according to individual circu stances. The award is open normally only to graduating Seniors who ha done four full years of work in Pomona College, who are rated in the upp half of the graduating class on the basis of their performance during bo the junior and senior years, and who wish to continue their studies either the Claremont Graduate School or elsewhere in America or abroad.

The prime purpose of the fellowship is to promote original and creati achievement in the candidate's chosen field of activity rather than merely reward faithful classroom work. Preference will be given to candidates p paring for scholarly rather than professional work. The selection will be bas not on scholarship only but on the possession of those personal qualities whi indicate a high degree of promise in a student of outstanding character. T plans for graduate work are to be made in consultation between the candida and the Committee on Scholarships, the committee having final authority.

University of Chicago Law School Scholarship: A scholarship in the Sch of Law at the University of Chicago will be awarded by the Pomona Colle Committee on Scholarships. Stipend is normally $720 and is renewable f two years if the student's record is satisfactory.

The Committee on Scholarships also nominates students Pomona College who wish to apply for awards by other institutio and foundations.

CLAREMONT GRADUATE SCHOOL SCHOLARSHIPS

In addition to the awards for graduating seniors offered throug Pomona College, scholarships for graduate study leading to a vanced degrees are available at the Claremont Graduate School.

General scholarships and fellowships ranging in value from $6 to $2,000 are awarded for graduate work in the field of the can date's choice. Several endowed and special scholarships are al available. A few graduate assistantships with half tuition in t

No Student Ever Forgets the Snow-Capped Grandeur of Old Baldy

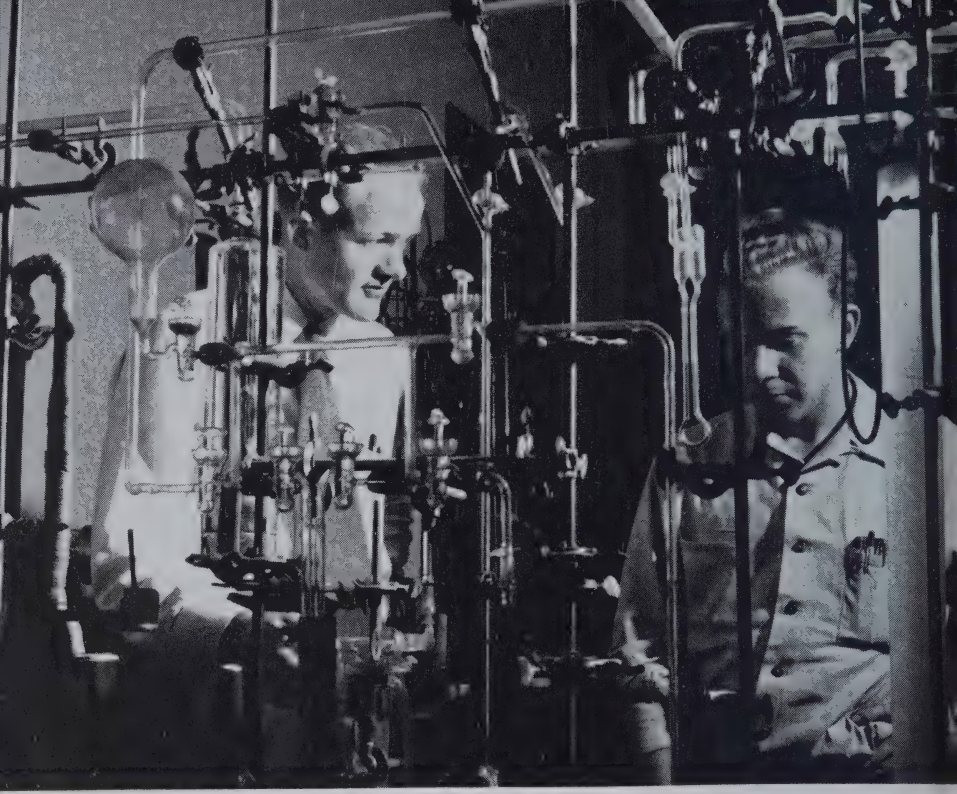
The Carnegie Building for Social Sciences

College Avenue Runs through the Campus

Marston Quadrangle

Bridges Auditorium, for the Associated Colleges at Claremont

Work in Art Is Available to All Students



A Chemistry Student Is Introduced to the Intricate Apparatus of a Modern Laborat

An Informal Outdoor Class

laremont Graduate School are offered through the undergraduate lleges at Claremont and the Rancho Santa Ana Botanic Garden.

STUDENT AID

addition to the scholarship awards, the college is able to make me grants-in-aid available to students doing satisfactory academic ork who require financial assistance to continue at Pomona. To is end the income of certain endowed funds is supplemented by budget appropriation. Normally applications for aid can be nsidered only from students who have completed one year in mona College, who are or intend to become candidates for a gree from Pomona College, who maintain a high standard of nor, who are economical in their habits, who are regular in their tendance upon college exercises, and who maintain at least C grade their scholastic work. Recipients of grants-in-aid are expected to rn part of their college expenses by employment during vacations d term time.

Aid may be withdrawn at any time from students who prove not have conformed to the conditions.

If a student who has received a grant-in-aid transfers to another istitution of comparable cost before graduation the total sum anted him by Pomona College will become a loan, repayable cording to the terms applicable to regular student loans.

It is customary to extend loans only instead of grants to students no are in the second semester of the senior year.

All applications for aid should be made to the chairman of the ommittee on Scholarships and Student Aid, Sumner Hall, before ay 15 for the following academic year. Emergency requests for the s:ond semester should be submitted before January 15 for the s:ond semester of the current academic year.

STUDENT AID FUNDS

The income from the following funds is available for student aid:

The Francis Bancroft Memorial Fund of $1500, given by Mrs. James T. Ford in memory of her father.

The L. H. Barrows Fund of $2500.

The H. G. Billings Memorial Fund of $1000.

The Florence G. Bixby Fund of $5000.

The Hagop Bogigian Fund of $31,402.

The Sherlock Bristol Memorial Fund of $400.

The Bessie A. Brown Memorial Fund of $800, given by Mrs. Fannie E Brown.

The Henry Herbert Brown Memorial Fund of $1000 given by Mrs. Fanni E. Brown in memory of her son.

The Grace C. Cheney Student Aid Fund of $4875.

The Emily Gilbert Cleghorn Memorial Fund of $1000, given by Arthur M Cleghorn, '03, in memory of his wife, the income to be used for the Studen Emergency Fund.

The Class of 1918 Fund, $961.

The Charles C. Cragin Memorial Fund of $5025, given by Mrs. Laura E Cragin in memory of her husband, Rev. Charles C. Cragin.

The Agnes K. Crawford Memorial Fund of $1000, given by David R Crawford and William Crawford in memory of their mother.

Ebell Club of Pomona Student Aid Fund of $1000. To help a woma student.

The Elwood Fund of $2600, given by Mary E. Elwood.

The Ford Fund of $2500, given by Rev. James T. Ford.

The Margaret Fowler Fund of $1000.

The Orren A. Gorton Fund of $5000.

The Emma K. Guild Fund of $44,887.

The Manette Hand Memorial Fund of $1500.

The Alfred James Harwood Memorial Fund of $8000.

The Charles E. Harwood Fund of $5000.

The Thomas F. Howard Memorial Fund of $3500, given by Dr. an Mrs. H. G. Brainerd in memory of Mrs. Brainerd's father.

The Mary Marvin Janes Fund of $679.

The Helen Day Jewell Fund of $1000.

The Henry L. Kuns Fund of $2000.

The Jean Loomis Fund of $2000.

The Howard J. Mills Memorial Fund of $3000.

The Ontario Congregational Church Fund of $186, given by the Ontari Congregational Church toward the endowment of a fund.

The Page Fund of $5000, given by Mrs. Loraine H. Page. (Three thousan dollars of this may at some time be used for other purposes.)

The Arthur Warren Phelps Memorial Fund of $2000, given by Mrs. C. S Phelps and Mr. C. A. Phelps in memory of their son and brother.

The Lydia Phelps Memorial Fund of $4000.

The Pilgrim Church of Pomona Fund, $2002, given by the Pilgrim Congregational Church of Pomona.

The Pilgrim Church Women's Auxiliary Fund of $556, given by the Women's Auxiliary of the Pilgrim Congregational Church of Pomona.

The John D. Potter Memorial Fund of $2000, given by Mrs. S. T. Potter in memory of her husband.

The Anna H. Searing Fund of $1800.

The Clyde H. Shields Memorial Fund of $2000, given by R. P. Shields in memory of his oldest son.

The Lucia Glidden Strong Fund of $911.

The Sweet Memorial Fund of $2500, given by Harlan P. Sweet in memory of his wife.

The Maria T. Wardwell Fund of $1000.

The Clara B. Waterman Memorial Fund of $5000, given by Miss Rosa May Bennett.

The Henry S. West Fund of $2000.

SPECIAL FUNDS

The Crombie Allen Scholarship Fund of $1000, half of the income available annually to a graduate of Chaffey Union High School and half to a graduate of Chaffey College of Ontario, California.

The Martha E. Berry Memorial Fund of $6000, for foreign students.

The Mabel S. Bridges Memorial Fund of $3500, available for women.

The Alice Paul Harwood Scholarship Fund of $5000, open to graduates of Chaffey Union High School of Ontario.

The Stella M. King Scholarship and Loan Fund for Women, $10,000.

The Francis M. Price Fund of $1000, for children of missionaries.

The Willard E. and Henrietta P. Thompson Endowment Fund of $27,137, the income from which provides funds for one or more departments of the college to employ students for clerical or other work. Only those students who need financial assistance are eligible.

LOAN FUNDS

The college also administers loan funds by which it is possible to cooperate with the urgent need of students in making available to

them amounts sufficient to cover tuition fees. Interest at the rate of 4% per annum begins on graduation or at the time of leaving the college. Loans from the following funds may be available, applications for which should be addressed to the Committee on Scholarships and Student Aid.

General Loan Fund of $76,535

The Caroline Phelps Stokes Fund of $25,000, endowed by the will of Olivia Eggleston Phelps Stokes in memory of her sister, income from which is available for loans.

The Ethan Allen Chase and Augusta Field Chase Fund of $5,527, available for men.

The Ray Loan Fund of $1290, given by Mrs. E. F. Ray, to provide a means of meeting situations of temporary need.

The David Clark Fund of $1162.

The Robert C. Denison Memorial Fund of $581.

The Edwin C. Norton Memorial Loan Fund of $1575, available for undergraduate students, or for graduates of the college who wish to pursue advanced work in other institutions.

The C. F. Baker Memorial Loan Fund of $304, available for undergraduate students, preferably juniors or seniors, in the departments of Botany and Zoology, who are approved by the heads of those departments.

The A. G. McKenna Loan Fund of $2993, available to graduating seniors for advanced work at the institution of the student's choice.

The Anna Bruce Memorial Loan Fund for Women, of $530.

The Ellen H. Lyman Fund of $280.

The Associated Women Students Loan Fund, administered by the Dean of Women at the request of the Associated Women Students, makes available for women students short term loans for personal emergencies. It is not normally used for loans to meet college bills. Interest at the rate of 4% begins after a period of two years.

The Associated Men Students Loan Fund, established in 1931, is available for loans in small amounts to meet personal emergencies or short-term personal needs of Pomona men. It is not intended to be used to pay college bills. For a special need a loan may be issued on a long-term basis. The interest rate is 4%. The fund is administered by the Dean of Men at the request of the Associated Men Students.

STUDENT EMPLOYMENT

The College endeavors to find employment for students needing to earn part of their expenses. Many are thus helping themselves by various forms of labor such as baby sitting, janitor work, waiting on tables, general house work and gardening.

Applications for aid in securing employment should be addressed to the Director of Placement Service, Sumner Hall.

PRIZES AND AWARDS

GENERAL

The following prizes and awards are available for general accomplishments and for proficiency in the work of the several departments:

The Rena Gurley Archibald High Scholarship Prize: A prize of $50 to be awarded to that member of the graduating class taking the B.A. course and ranking highest in scholarship was established by the bequest of the late Reverend Andrew W. Archibald, D.D.

The Mary Ford Bacon Memorial Prizes: Three prizes of $100 each for the best essays or monographs relating to the Constitution of the United States are awarded annually by the Departments of History, Government, and Economics. The three contests are conducted separately under special rules made by the faculty of each department. Entries are judged with due regard for effectiveness of style, originality of thought and depth of insight into the spirit and operation of the American constitutional system. The Mary Ford Bacon Memorial Fund also provides a sum of money for the purchase of books and other materials on the Constitution recommended by the faculty in history, government, and economics.

The Arvid Pierre Zetterberg Award: From a fund endowed by Mr. and Mrs. A. P. Zetterberg in memory of their son, Lt. Arvid Pierre Zetterberg, an annual award of $50 is made to the sophomore man who during his freshman year exemplifies the highest qualities of character, scholarship, and interest in manly sports. The award is made on nomination of the Scholarship Committee and is presented at the Opening Convocation in September.

ART

The Rembrandt Club Art Prizes: A first prize of $25, and a second prize of $10, are awarded by the Rembrandt Club for excellence in drawing and design, in work presented for the annual student exhibition.

The Rembrandt Club Art History Prize: A prize of $10 is given by the Rembrandt Club for the best paper presented in the course in History of Art.

ASTRONOMY

The Moncrieff Astronomy Prizes: Prizes given to students in the firs year course in Astronomy, taken regularly in class, whose interest in the study and proficiency in the observatory work are indicated by the best notebook kept in accordance with the teacher's suggestion. Prizes totaling $50 ar endowed by Miss Flossie C. Moncrieff, '11.

BIOLOGY

The Vaile Prize: A prize of $15 to be awarded to an outstanding studen in Botany or Zoology was endowed by the late Mr. Charles S. Vaile.

CHEMISTRY

The Stanley D. Wilson Prize: A prize of $50 endowed by Dr. Stanley D Wilson is awarded annually to the student whose independent study in research shows greatest promise for creative work.

CHEMISTRY-GEOLOGY

The James A. Lyman Prize: A prize of $100 awarded at the beginning of the college year to a senior student majoring in chemistry or geology who in the opinion of the chemistry-geology faculty, shows special promise of achievement in research or teaching, or both. Established in memory of Dr James A. Lyman, Professor of Chemistry 1909-1926, by his son, Dr. George P. Lyman, '26.

ECONOMICS

The Morris B. Pendleton Prizes: One or more prizes of $25, made possible by the Morris B. Pendleton Fund, are awarded annually to economics seniors who have distinguished themselves for their work in the department.

EDUCATION

The Ada May Fitts Education Prize: A prize of $50 endowed by Mr. Charles T. Fitts in memory of his wife, Ada May Fitts, is awarded annually to a student for excellence in courses in the Department of Education and for unusual promise in the educational field.

ENGLISH

The John Dye Award: From a fund established by Mr. and Mrs. John Thomas Dye in memory of their son, John Thomas Dye, III, who was a Lieutenant in the Army Air Corps, is offered an annual award of $100 for the best piece of original writing to appear in a student publication. The award is announced at Commencement time.

The F. S. Jennings Memorial Prizes: Three prizes for men and three prizes for women of $50, $40, and $30, respectively, for excellence in English are available each semester to members of the Freshman class taking English 1. In the award of these prizes attention is given to the interest shown by the student in improving the quality of his written and spoken English.

GOVERNMENT

The Edward M. Sait Prize: A prize of $5 for the purchase of a book relating to American or comparative government, or for a membership in the American Political Science Association, is awarded to the student doing the best work in the basic course in government.

The Russell M. Story Prize: A prize of $5 for the purchase of an appropriate book, or for a student membership in the American Society for Public Administration, is awarded to the student doing the best work in the course in public administration or in state and local government.

The George S. Burgess Prize: A prize of $5 for the purchase of an appropriate book, or for a subscription to a selected law review is awarded to the student doing the best work in the course in legal history or constitutional law.

INTERNATIONAL RELATIONS

The Cordell Hull Prize: An award of $50 is offered annually to the student who submits to the committee on International Relations the best essay on a problem relating to the United Nations. Subjects must be cleared with the secretary of the committee on or before April 1, and the essays, between 2500 and 3000 words in length, must be submitted in triplicate on or before May 1. In case no one essay is of outstanding merit, the committee reserves the right either to divide the honors or to make no award.

LATIN

The Mudge Latin Prizes: First and second prizes of $10 and $5, respectively, for excellence in Latin are endowed by friends of the College.

LIBRARY

The Eda May Haskell Library Prize: A prize of at least $15 in the form of a purchase order for books is offered for the best library submitted by a senior student, not necessarily for the largest or most expensive collection but for the most intelligently selected books in one or more fields of the student's interest.

MATHEMATICS

The Llewellyn Bixby Mathematics Prize: A prize of $10 for excellence in Analytic Geometry and Calculus; open to all students completing both Mathematics 1 or 52 and 65.

MUSIC

The Barbara Sanford Allen Prize: An annual competitive prize of $50 to be awarded to a student in the department of music, above freshman rank. This award is made possible by the husband and parents of a graduate of the Class of 1915 of Pomona College.

PHYSICS

The Tileston Physics Award: A prize of $50 to the junior student in physics whose record in course and department work is judged most promising.

The Tileston Survey Physics Prize: An award of $10 to the outstandin student in the Physics 1 course.

These prizes have been established by former students of Professor Rolan R. Tileston and by members of his family.

PUBLIC SPEAKING

The Kinney Declamation Prizes: A prize declamation contest open to mem bers of the Freshman class occurs early in the second semester. First, second and third prizes of $25, $20, and $15, respectively, were endowed by the lat Mrs. H. N. Kinney.

The Dole Debate Prizes: A prize debate for lower-division men is hel near the close of the second semester. First and second prizes of $30 and $20 respectively, established by the late Mr. John H. Dole in memory of hi brother, Mr. William B. Dole, were endowed by Mr. Arthur M. Dole, '96.

The Stella King Prizes: The opportunity to compete for prizes totaling $7 for speeches of their own composition is offered to upper-division students The judges have the right to distribute the prize money among the contestant as they see fit, or to withhold all awards if they feel warranted in so doing These prizes were endowed by the late S. H. Wheeler, in memory of Mis Stella King.

RELIGION

The Hager Prize: A prize of $10 for the best essay on a foreign missionar subject, open to all students, was endowed by the late Mr. and Mrs. C. R Hager.

General Information

LIBRARY

Pomona College shares with the other Associated Colleges the facilities of the Honnold Library, which houses approximately 240,000 volumes and 179,000 bound and unbound United States and California government documents, and an uncatalogued pamphlet collection. The Library subscribes to over 500 periodicals and maintains bound files of approximately 1,000, many of which are complete. Especially valuable are the periodical holdings in the field of natural science. The library is a depository for U. S. Government Documents, California State Documents, and the publications of the Carnegie Institution.

The following special collections are a part of the general library: the Cook-Baker Biological Library and the Parish Botany Library in Crookshank Hall and the Rancho Santa Ana Botanic Garden building; the James A. Lyman Memorial Library of Chemistry and the Geology Library in Mason Hall; and the Mathematics and Physics Library in Pearsons Hall. Housed in the main building are the Mason California, the Wagner North Pacific, the McCormick Korean Libraries, and the Viola Minor Westergaard and Carnegie Art Collections.

In addition to the Pomona College Library, the Honnold Library also houses the libraries of the Claremont Graduate School, Claremont Men's College, and a part of the library of Scripps College. The main Scripps College Library is housed in the Ella Strong Denison Library. It contains in addition to its general collection the Macpherson Collection of books about women, and the Stephenson Memorial Collection of American History.

PUBLICATIONS

The stated publications of the College are issued as numbers of the *Pomona College Bulletin,* which is published monthly except July and August. These include: the *Annual Catalog,* the *Report of the President,* and the *News Letter* for Alumni.

LECTURE FOUNDATIONS

The Joseph H. Johnson Foundation, endowed by Miss Ellen F Scripps, provides an annual income for the purpose of bringin distinguished lecturers to Pomona for a protracted stay and intimat participation in college life.

The Clark Foundation, established by Mr. Arthur O. Clark makes it possible for the College to offer each year a lecture o course of lectures in the general field of religion.

The Henry D. Porter Foundation, named in honor of the lat Rev. Henry D. Porter, for many years a missionary in China provides for a lecture by some prominent worker in the field o Christian Missions.

PUBLIC ASSEMBLIES

A general assembly of the college is held each Thursday at 11 a.m for the purpose of hearing visiting lecturers or members of th faculty discuss topics of interest to the whole institution. Thi assembly period is also used for student body and class meetings

On five stated occasions throughout the year, including th opening of each semester, College Convocation is held. Full attend ance of both faculty and students is expected at these exercises.

RELIGIOUS ACTIVITIES

The four Associated Colleges at Claremont unite in a Colleg Church which holds its services each Sunday morning at eleve o'clock in Bridges Hall of Music. The Church is the coordinatin force for religious activities among the colleges. Students partici pate in the services and there is a special student choir for th Church.

The College Chapel, which is altogether a service of worship, i held every Tuesday morning from 11:00 to 11:25 in Bridges Hal of Music. Both students and faculty participate in the program, a which attendance is voluntary.

Various expressions of religious interest and forms of religiou activity exist on the Pomona campus: worship, study and dis cussion groups, campus and community programs of service, an contacts with intercollegiate enterprises. These interests and thei sponsoring organizations are centered in the College Church a a campus-wide agency to encourage interest in religion and t

levelop religious activities. The College Church maintains relaionships with the national Student Christian Movement and the Vorld Student Christian Federation.

MUSIC

he College cooperates with Scripps College, Claremont Men's ollege, and the Claremont Graduate School in the presentation in ridges Auditorium of the most distinguished masters in the field f music. Regularly included in the series is the Los Angeles hilharmonic Orchestra.

For the concerts thus afforded an annual ticket is furnished to very full-time student without extra charge.

Under the auspices of the Pomona College Department of Music, mplimentary public recitals by individual students and members f the faculty and by groups are given frequently throughout the ear. These are usually given on Monday evenings.

The College Symphony Orchestra, the Choir, the Men's and Vomen's Glee Clubs, the Band, and chamber music groups, afford pportunity for the study and public performance of the finest in nsemble music.

CAMPUS ORGANIZATIONS

he Associated Students. This association coordinates all student tivities. Its officers are chosen by the student body from among eir own number. All important questions are first considered by e Executive Council, a governing group composed of class presints and chairmen of other organizations representing various tivities of campus interest. These students are responsible not to e organizations which they represent on the Executive Council it to the Executive Council itself.

Associated Men Students and Associated Women Students. These ganizations consider and promote the special interests of the men d women respectively.

Class Organizations. Each of the four college classes is organized the purpose of promoting class social life.

Phi Beta Kappa. The Pomona Chapter of Phi Beta Kappa is the mma of California. Upperclassmen "who are of good moral

character, who are candidates for the degree of Bachelor of Ar and who are distinguished for breadth of culture and excellence scholarship" are eligible to membership in the Phi Beta Kap Society.

Honor Societies. Ghosts; Mortar Board; Gamma Chapter Alpha Kappa Delta, Sociology Fraternity; California Alpha Cha ter of Kappa Mu Epsilon, National Honorary Mathematical Fr ternity; Delta Sigma Rho, National Honorary Forensic Fraterni

Departmental Organizations. El Circulo Español, Le Cer Français, German Club, Caduceans, Economics Club.

Musical Organizations. Men's Glee Club; Women's Glee Clu Music Club, Symphony Orchestra, Chamber Music Groups, Ban

Dramatic and Literary Organizations. Drama Productions Co mittee, Masquers and Thespians, in Dramatics; and Orchesis, Dancing; MSS, literary magazine.

Other Organizations. Camera Club; Ski Club; Women's Recr tional Association.

KSPC, a local F.M. radio station owned and operated by the st dents, covers the campus and the surrounding area and provid radio experience for interested students.

Local Social Fraternities. Alpha Gamma Sigma; Kappa Del Kappa Theta Epsilon; Nu Alpha Phi; Phi Delta; Sigma Tau. Ea fraternity has a club room in one of the residence halls on t men's campus. Approximately one-third of the men students belo to the fraternities which pledge new members during the sophom year. There are no sororities on the campus.

STUDENT PUBLICATIONS

The *Student Life* is published weekly by the student body and devoted to campus affairs.

The *Metate* is the yearbook published by the Associated Studen

The *Hand Book,* which contains material designed especially new students, is issued at the beginning of the year by t Associated Students.

FACULTY-STUDENT COMMITTEES

'omona College assumes that most of the matters which affect the 'ollege are of concern to both faculty and students and believes ıat the experience and the judgment of both should be taken into ccount in the management of much of the college life. For this :ason a large number of the policy forming committees of the ɔllege have both faculty and students as voting members. These ɔmmittees now include the following: Admissions, Athletic Coun-l, College Life Council, Personnel, Public Events, Religious Ac-vities, Student Affairs and Vocational Counseling and Placement.

CONDUCT

omona College assumes that its students, having voluntarily en-ɔlled, are in sympathy with its purposes and philosophy, and will ɔide by its accepted practices. This basic philosophy is that all ıembers of the college community will govern their conduct by andards of good taste and ethical judgment, and will exercise eir responsibility as members of the community when these stand-ds are disregarded by others. Any behavior on or off the campus hich may bring discredit to the individual or to the College may sult in disciplinary action.

The use or possession of alcoholic liquors of any kind on the mpus is prohibited by the college.

Students are held responsible for the AMS and AWS residence les.

The faculty has placed the interpretation and execution of these ɔlicies in the hands of the Committee on Student Affairs, which nsists of the deans and certain faculty members appointed by the esident and four student members appointed by the Executive ɔuncil of the Associated Students. Under this Committee as a licy-making body the College Life Council functions, composed seven faculty members appointed by the President and eleven ıdent members elected from the student body.

Since 1948-49 the College Life Council has been delegated the ɔonsibility for the administration of discipline, for dealing with er-class rivalry, for supervision of fraternities, for regulations verning the use of automobiles, and for dealing with infringe-nts of academic honesty and honor.

The Judiciary Councils of the Associated Women Students an the Associated Men Students administer regulations concernin conduct in the residence halls on their respective campuses, an acting together as a joint body, carry out the policies of the Colleg Life Council and act as a court or advisory body in matters o discipline, except in those considered by the deans to involve seriou problems of personality adjustment. The Judiciary Councils ar empowered by the College Life Council to take disciplinary actio up to and including expulsion in cases of misconduct. The Colleg Life Council ruled in October, 1955, that either suspension or ex pulsion from college should be a proper penalty for academi dishonesty. Any member of the Judiciary or any defendant in judiciary case may appeal any judiciary decision to the Colleg Life Council.

Individual or collective student enterprises which use the colleg name and involve the absence of the participants from the colleg must receive the official sanction of the Committee on Studen Affairs.

AUTOMOBILES AND MOTORCYCLES

Rules governing the use of automobiles are formulated and admin istered by the College Life Council. Students maintaining cars i Claremont are subject to the following regulations:

Registration and liability: Ownership of the car, together with it license number, must be registered with the office of the Dean o Men or the Dean of Women at the opening of college or withi three days after the car is driven in Claremont. The student is re sponsible for having on the windshield of his automobile the Po mona sticker issued at the time of registering the car. At the sam time, the College Life Council also requires that owner furnis evidence of having liability insurance.

Student drivers must at all times, both on and off the campus exercise particular care and consideration for the safety of them selves and others, and must acquaint themselves with the stat and local traffic laws and comply with their observance.

No campus-resident student may use or park a motorcycle or motor scooter anywhere on the campuses, grounds, or streets of th Associated Colleges. A student may drive or keep a motorcycl outside of college limits provided he does not bring it on any par of the campuses.

Off-campus residents who need motorcycles or motor scooters or commuting purposes may secure a special permit and driving nstructions from the Campus Police Department. This permit is or commuting to the campus, not for driving about the campuses r college streets. Beginning in September, 1956, the fee for motorycle and motor scooter registration will be the same as for off-ampus students' car permits.

Failure to comply with the above regulations shall constitute an ffense against the college, the penalty for which may include equestration and storage of the vehicle at the student's risk and xpense for a period not beyond the end of the term in which the ffense occurs.

Campus Fee: Students who use the campus streets, grounds and arking lots for overnight parking will be charged a fee of $4.00 semester. Those who have their cars on campus during the day nly will be charged $2.00 a semester. Reduced fees will be charged or a period of less than one month.

MEDICAL AND PHYSICAL CARE

omona College, in cooperation with Scripps, Claremont Men's ollege, and the Claremont Graduate School, engages the full-time rvices of two physicians to care for its students.

The medical advice of the college physicians is ordinarily avail-ble, free of charge, to all students, subject to certain conditions hours and location of residence. Minor ailments are treated at e Baxter Medical Building or at the Infirmary, which is used for ses requiring nursing and certain types of hospital care. All sur-cal dressings and medicines are at the expense of the ill or injured is also medical service in chronic or prolonged illness or in case of cident, or an acute illness beyond ordinary first-aid emergency eatment. The college nurse visits the residence halls each morning order to see those students reported ill.

The student is entitled to two days each semester at the College firmary without charge for room and meals. If illness requires spitalization for additional days, the charge is $7.50 per y. The College, however, reserves the right to discontinue this dividual medical service at any time, without previous notice.

The College does not assume responsibility for the complete med ical care of all its students, but only in so far as its present facilitie will afford. Preventive medicine and campus health functions ar stressed in the college medical program.

The College has completed arrangements by which its student may purchase group health and accident insurance at special rate and it advises students to avail themselves of this opportunity Detailed information about this insurance may be secured fron the Dean of Students or from the college physicians.

Students are expected to conform to the medical regulations o the college.

PHYSICAL ATTENTION AND REQUIRED PHYSICAL EXAMINATIONS

The physical care of students is a matter of special concern to th college. The medical certificate required of all applicants prior t admission includes a certificate of recent successful small-pox vac cination and a certificate of satisfactory tuberculin test, or an x-ra of the chest, performed within the preceding six months. Any stu dent, while in college, may be required to present each year a follow-up certificate of examination for tuberculosis. Regular worl in physical education is prescribed throughout the four years.

Required examinations after admission: Every student on en tering college is given a physical examination under the directio of the College Physician. All new students entering in the fal semester are required to complete the examination during Nev Student Days or by November 1, and those entering in Februar are required to complete it by March 1. Failure to meet this re quirement within the announced time limits will result in th temporary withdrawal of the student's privileges of registration an class attendance until the requirement is met.

Each academic year a student is in residence he is required t complete a chest x-ray examination while the mobile x-ray equip ment is on campus or within fifteen days thereafter. Failure to mee this requirement will result in the suspension of privileges of regis tration and class attendance until notice has been received from th physician of the Associated Colleges that the requirement has beer met.

Frary Dining Hall for Men with Its Famous Orozco Fresco

A Corner of a Parlor in the Women's Residence Halls

A Popular Spring Activity

Pomona-Claremont Voluntary Unit of the ROTC

ATHLETICS

'omona College and Claremont Men's College unite to conduct joint program of intercollegiate athletics, under one coaching :aff, as a member of the Southern California Intercollegiate Ath-:tic Conference. Our teams, known as the "Sagehens," compete in ɔotball, basketball, track and field, baseball, cross country, wimming, golf and tennis.

In addition to the program of intercollegiate sports the College ıaintains an extensive program of intra-mural sports open to all ıen students.

The direction and financial management of athletics rest with ıe Director of Athletics, who has associated with him as an dvisory body the Athletic Council, composed of three members : the Pomona Faculty, one member from the Claremont Men's ollege Faculty, three student members from Pomona and two udent members from Claremont. Under the general manager, ıere is a student manager for each sport.

The college endeavors to safeguard students in the use of its ıysical education facilities, athletic fields, and gymnasiums, and this end the department has established regulations concerning .e use of such facilities, but it is clearly understood that students ho use the same do so entirely at their own risk.

ASSOCIATED COLLEGES COUNSELING CENTER

he Associated Colleges maintain a Psychological Counseling Center ıder the direction of a Clinical Psychologist. The Director of the :nter, Dr. Robert Keith, works in conjunction with the college ıysicians, Dr. Gilbert S. Coltrin and Dr. D. Scott Fox, and with Dr. ɔbert Hinshaw, a psychiatrist. The Center offers instruction, in ading and in study techniques, vocational testing and consultation d counseling on personal and emotional problems. Most of the rvices are open to Pomona students without charge, including one nsultation with the psychiatrist. The cost of any additional con-ltations with the psychiatrist must be met by the student, and a minal fee may be charged for extensive counseling from the ychologist.

VOCATIONAL COUNSELING AND PLACEMENT

hrough faculty advisers and the personnel services of the college, sıdents receive assistance in their choice of a career. The college

maintains a vocational placement service for the benefit of alum and students. Many alumni cooperate with the Director of th Placement Service in assisting seniors and graduates to fir employment and to provide reliable occupational informatic concerning representative business organizations, government age cies, the professions, and other opportunities for employment.

Each year conferences on careers for men and women are he on campus under the sponsorship of the academic departments ar the faculty and student committees on vocational services.

A Vocational Information Center is maintained in the Honno Library with information on vocations in this country and oppo tunities for placement abroad and for foreign study. Informatic on scholarships and fellowships for graduate study is made availab to interested students by the Scholarship Committee, the Vocation Information Center at the Honnold Library and department offic

GRADUATE WORK IN THE CLAREMONT GRADUATE SCHOOL

Graduate work leading to the Master of Arts degree is offered several fields including Asian and Latin American studies, botan economics, education, English and American literature, geolog government, history, music, psychology, public affairs (busine economics, government administration, international relations), ar romance languages. The Master of Fine Arts degree is given on two-year program in applied art combined with art history ar theory.

The Doctor of Philosophy degree may be taken in botany, ec nomics and government, education, English and American liter ture, history and psychology.

The Claremont Graduate School is authorized to recommer candidates to the California State Department of Education for th following public school teaching credentials: general elementar general secondary, junior college, and special secondary for a Work also is offered leading to administrative credentials and to th new pupil personnel services credential.

The annual bulletin may be obtained from the Admissions Secr tary, Harper Hall, Claremont, California.

INTERCOLLEGIATE PROGRAM

Under a grant from the Fund for the Advancement of Education of the Ford Foundation, the Associated Colleges at Claremont are cooperating with Occidental College, the University of Redlands and Whittier College in the Intercollegiate Program of Graduate Studies designed to prepare college teachers of comparative literature, English and American literature, economics and government, and history. Those interested in this program should consult the Dean of the Claremont Graduate School.

SUMMER SESSION

The Claremont Summer Session is sponsored jointly by Pomona College, Scripps College, Claremont Men's College, and the Claremont Graduate School. It is organized in two terms of six and four weeks each, and offers a full program of undergraduate and graduate courses. A bulletin describing summer work is published annually in February and copies may be obtained from the Summer Session Office, Harper Hall, Claremont, California.

Pre-Professional Preparation

Although the liberal arts program at Pomona aims at a broa and fundamental education rather than specialized vocation training, the regular work of the college prepares students fo direct entry into many vocations, as well as for specialized work i graduate and professional schools.

National corporations each year employ thousands of college gra uates and train them for executive positions. Though such senio have often majored in economics, government, or science, man employers consider the field of study less important than characte maturity, and intellectual ability demonstrated by successful colle work. Many women with a Pomona degree go directly int responsible positions in business and the professions.

Positions as industrial chemists, physicists, and geologists, as we as Federal and State Civil Service positions, are available to Pomon graduates without further study. Majors in mathematics are i demand by both business and industry. English majors may go int advertising, public relations, journalism, or publishing. Graduat in botany often find positions with the Forest Service or the Nation Park Service. In many counties of California, sociology majors ca go directly into social work with the B.A. degree. Graduates wh have concentrated in the social sciences are eligible to take compet tive examinations for a variety of civil service positions, such Junior Management Assistant, and other federal or state office Pomona graduates interested in careers in the Foreign Service a eligible to take the examinations given by the State Departmer which is at present conducting a recruitment program.

More than half of Pomona's graduates go on to profession schools. Most departments of the college prepare students fo advanced work in graduate school. Some of the professional oppo tunities are listed below.

PRE-BUSINESS COURSE

Recent evidence reveals that the tendency for business executiv to come from the social sciences, particularly economics, is growin Modern management needs to know much besides the particul facts and skills associated with an individual business. A thoroug

understanding of the economic system and business-government relations, along with the power to communicate accurately and convincingly, is more and more becoming a prerequisite to business success.

Students at Pomona College, planning a career in business will find a rich offering of courses, including accounting, statistics, money and banking, labor economics, national income, economic theory and business policy, trade regulation, business law, taxation, international trade, and international finance. During the senior year, the student is urged to take honors work or supervised study in the area of his own special interest under the direction of a staff member. The program is ideal for the student who plans to attend a graduate school of business, to pursue an advanced degree in economics, or to enter one of the special business training programs for college graduates.

This program at Pomona College is now within reach of any student who has the requisite ability, character, and initiative. See "Scholarships and Student Aid." Some scholarships covering full tuition, fees, and books are now available annually to incoming freshmen who plan on business as a career.

DENTISTRY. See Pre-Medical

ECONOMICS—ENGINEERING

This curriculum combines a broad and strong training in the physical sciences with an integrated program of economic and business principles. The student who follows this curriculum will be better prepared to accept with understanding the responsibilities of leadership in modern engineering organization. The course work may be organized to prepare the student for graduate work in Industrial Management or Business Administration.

The lower division requirements are: Mathematics 1 and 65 (12 units), or Mathematics 50 (6 units); Economics 51, 52, 71 and 72 (14 units); and Physics 51 and 52 (8 units), or Chemistry 1 (8 units).

The concentration requirement may be satisfied by taking a minimum of 30 units of upper division work in the four cooperating departments by completing a minimum of six upper division units in Mathematics, Economics, and Chemistry or Physics, with a minimum of 12 units in at least one of these fields.

Each student's program will be planned in accordance with hi background and interests. A faculty advisor will advise him whicl courses in each department can be counted toward the minimun requirements.

ENGINEERING

Students at Pomona College who plan to enter a professiona engineering school have an opportunity to obtain an excellen foundation in mathematics and physical science in addition to well-balanced liberal training. Such students should consult witl members of the staff in physical science who are acquainted witl engineering school requirements. Two special programs, describe below, have been established, but Pomona graduates are prepare to enter other engineering schools as well.

COMBINED PLANS WITH MASSACHUSETTS INSTITUTE OF TECHNOLOGY AND CALIFORNIA INSTITUTE OF TECHNOLOGY

Along with several other liberal arts colleges, Pomona has a arrangement with the Massachusetts Institute of Technolog and with the California Institute of Technology whereby qualifie students may receive the Bachelor of Arts degree from Pomon and a Bachelor of Science degree from M.I.T. or C.I.T. after combined five-year program, of which the first three years ar taken at Pomona. Without the combined plan at least six year would usually be required to complete the work for both degree Students under the combined plan will be accepted at the Massa chusetts Institute of Technology or the California Institute c Technology without examination if recommended by Pomona.

In satisfying the Lower Division Distribution Requirement c Pomona College, the humanities requirements of the particula institute should be carefully considered in consultation with th adviser. In addition, the following Lower Division courses shoul normally be completed.

Physics 51 and 52
Mathematics 1 or 50
Engineering Drawing 7ab
Engineering Drawing 40ab
Chemistry 1 or 59

Satisfaction of the Pomona College concentration requirement in ›re-engineering for those students who transfer at the end of he junior year shall include at least 24 Upper Division units elected from the following courses in consultation with the Faculty ıdviser. Starred courses shall normally be included.

Mathematics 151a*, 151b	Physics 141a*, 141b
Mathematics 125*	Physics 142a*, 142b
Physics 110*	Physics 101
Physics 113a*, 113b	Physics 153

Students planning combined programs in specialized fields such s chemical engineering, architecture, food technology, and city ›lanning will approximate the above requirements on a unit basis ›ut with substitution of more suitable courses where deemed advisble after consultation with the Faculty adviser.

Those students concentrating in pre-engineering and who plan to ;raduate after four years at Pomona College shall complete 36 units ı Upper Division courses selected from the above list and from the dditional list below:

Mathematics 118	Physics 192
Mathematics 119	Engineering Drawing (up to 4 units in courses numbered over 100)
Mathematics 102	
Physics 191	

OURNALISM

)N THE RECOMMENDATION of graduate schools of journalism and of istinguished journalists, students planning a career in journalism re advised to concentrate in any principal field of study, to secure broad and liberal education, and to improve their mastery of the rt of writing. Courses in the social sciences, literature, the arts, nd foreign languages are strongly recommended.

AW

.DEQUATE PREPARATION for the study and practice of law requires ıe completion of an undergraduate program in the liberal arts ading to the baccalaureate degree. The best law schools do not equire any particular undergraduate concentration; they are interıted in breadth of background and quality of work. Lawyers and w schools agree that the ability to write and speak with clarity

and precision is of paramount importance. A broad foundation in government, economics, and history is essential; accordingly if the student concentrates in one of these, he should be sure to supplement his choice with courses in the other fields. A year of accounting is strongly recommended.

LIBRARY SCIENCE

A BACHELOR'S degree, the ability to use the typewriter with accuracy and speed, and a reading knowledge of at least two modern foreign languages are usually prerequisites to admission to a library school. All librarians will find a knowledge of statistical methods useful. Students expecting to take up public school library work in California are required to complete nine hours in education. Although it is not a prerequisite, actual experience in a library is a distinct advantage.

MUSIC

POMONA'S PLAN for concentration in music is designed for those who desire to carry on their collegiate music study in the context of a broad liberal arts program, with 45 to 60 units in music out of the total of 126. Areas of music concentration include performance, conducting, composition, secondary school music, and a flexible General Concentration intended primarily as a terminal program. Concentrators who plan to do post-graduate study in the field should acquire a reading knowledge of at least one modern foreign language.

PRE-MEDICAL

ALTHOUGH THE curriculum below is suggested for preparation for medical or dental school, it is not necessary for prospective candidates in medicine or dentistry to elect it as a concentration. Admission to professional school is possible from any concentration, such as English, Philosophy, History, etc., as long as the basic science requirements are met.

Minimum requirements for entrance to medical and dental colleges have been designated by the Council on Medical Education of the American Medical Association and by the Council on Dental Education of the American Dental Association. Many of the leading colleges in these fields, however, have requirements well beyond

his minimum, and are selecting only those candidates who are best prepared and have demonstrated high scholastic ability and laudable personal traits. Pre-professional students are advised not to attempt to crowd the minimum requirements into three years of college, but to follow a program planned to give breadth of view and a thorough grounding in the fundamentals of the biological and physico-chemical sciences.

For preparation for optometry, physical therapy and other allied medical arts, consult with the Chairman of the Pre-Medical Committee.

The curriculum outlined below meets the requirements for graduation from Pomona College and the entrance requirements of most of the medical and dental colleges in the United States.

REQUIREMENTS FOR PRE-MEDICAL CONCENTRATION

Lower Division Courses: Zoology 1; Chemistry 1, 59; Mathematics or equivalent; Physics 51, 52.

Upper Division Courses: 24 units minimum; Chemistry 106, 110a, 111a; plus 17 upper division units selected from one or more of the science departments.

SUGGESTED COURSES

FRESHMAN YEAR: English 1; Chemistry 1; Zoology 1; History 1.

SOPHOMORE YEAR: Chemistry 110, 111; Mathematics 1; Zoology 115, 120, (required by medical schools of California). Electives from language, literature, art or music; philosophy or religion.

JUNIOR YEAR: Chemistry 59, 106; Physics 51, 52. Advanced language; electives from the social sciences.

SENIOR YEAR: Electives in science to complete concentration, Speech 1, English 63 plus electives in other areas to complete graduation requirements.

Some medical and dental colleges require a reading knowledge of French, German or Spanish, with a preference for German. Students planning to study medicine should anticipate this requirement by taking some language in high school followed by at least one year in college. Students will find it advantageous to take trigonometry in high school. In addition students should consult with their adviser to determine the specific admission requirements of several

medical and dental schools to which they wish to apply and to learn the proper time to take the Medical College Admission Test or the Dental Aptitude Test. These tests are required for entrance into most medical and dental colleges.

PRE-NURSING STUDIES

Students interested in pre-nursing should consult the Zoology listing concerning the Zoology-Chemistry concentration.

PUBLIC SCHOOL TEACHING AND ADMINISTRATION

In California every public school teacher must have a credential granted by the State Department of Education. The teaching credential is also the basic requirement for certification as a school administrator. California requires students who wish a *secondary* credential to complete a bachelor's degree and one year of graduate work. This program must include a teaching major of 36 units and a teaching minor of 20 units in fields commonly taught in the high schools of the state. The two fields must be selected from the following: social studies, life sciences, physical sciences, English, speech, language arts, foreign language, mathematics, health education, agriculture, art, business education, home-making, industrial arts, librarianship, music, physical education, and conservation education. Students majoring in areas not listed must present two teaching minors from among the listed fields. Most prospective secondary school teachers will concentrate at Pomona College in the area or areas they expect to teach.

The minimum state requirement for the *elementary* and the *kindergarten-primary* credentials is a four-year baccalaureate program. Several California colleges and universities, of which Pomona College is one, feel that a graduate program of professional study is as desirable for elementary as for secondary teachers. The college therefore presents a program for prospective elementary school teachers which involves a fifth year of study, though appropriate program planning well in advance will permit completion of the minimum credential requirements in 4½ years. Students preparing for these credentials are not required to present majors in specific fields. The concentration in education, (page 100) is especially designed to serve prospective elementary teachers, but such con

entrations as psychology, art, music, physical education, and speech re equally acceptable.

The post-graduate study for elementary and secondary credentials nay be taken at the Claremont Graduate School (one of the Associted Colleges at Claremont) or at any other college accredited by the tate for teacher education. Each graduate school prescribes its own rogram for fulfilling credential requirements and these programs ary greatly. Students planning to secure teaching credentials are dvised to consult with the Education department early in their ollege careers to avoid unnecessary delays in completing these equirements.

OCIAL WORK

TUDENTS WHO plan to follow social work as a profession should ttend a graduate school of social work, since the counties with ighest standards accept only workers with at least one year of raduate training. Also, one seldom advances to the higher admintrative positions without such training. The regular undergraduate oncentration in sociology will prepare one adequately for entrance nto graduate school.

Introductory statistics and psychology should be included. conomics 111 and Government 103 will be found useful. In the acific Southwest the ability to speak Spanish is very helpful, though ot essential.

HEOLOGY

TUDENTS PLANNING to prepare themselves for Seminary or Divinity hool training, with a view to entering the parish ministry or llege teaching in religion, can most profitably fulfill their requireents for concentration in one of the following departments: nglish, History, Philosophy, Psychology, Religion, or Sociology; in the trans-departmental program in Modern Social Institutions.

Students planning to prepare themselves for Seminary or Divinity hool training with a view to entering the field of religious educaon, are advised to concentrate in Religion in their undergraduate udies.

The Curriculum

THE PURPOSE OF Pomona College is to prepare students for society which expects of them leadership in diverse roles an offices, humble or great. The college endeavors to help it students toward a life in which professional achievement i accompanied by personal happiness, cultural balance, and socia responsibility. Its program, therefore, includes courses intended fo general education as well as courses designed for specialized stud and preprofessional training.

The immediate objective of general education, as expressed in th course requirements of the College, is to help the student develop

1. Ability to use the English language effectively, in reading, i writing, and in speech.
2. Knowledge of scientific thought and method.
3. Understanding of the historical development of our civiliza tion.
4. Understanding of human society, its problems and its institu tions.
5. Understanding of the nature and operation of the America economic and political institutions.
6. Knowledge of literature and the fine arts.
7. Awareness of ethical and spiritual values.

With these purposes in mind, the College expects that certai courses be taken in the Freshman and Sophomore years.

To secure the benefits of intellectual discipline derived fron concentrated study, and at the same time, in many instances, t prepare for professional training after graduation, every studen is required by the end of the sophomore year to select a field o concentration in which he will complete not less than twenty-fou units of upper-division work during his Junior and Senior years The field of concentration may be represented by one departmen or may extend beyond departmental limits to include closel related subjects. For students of outstanding ability and well-define interests, the field of concentration may be developed into a pro gram of honors study. These requirements and programs of stud are described in detail in the following pages.

FACULTY ADVISERS

Each new student is assigned to a faculty adviser. Advisers to Freshmen are general advisers who assist Freshmen in the selection of courses and general adjustment to the academic life of the College. At the end of the student's first year and in the light of his academic interest an adviser is assigned with whom the student will work during the remainder of his college course. If at any time a change is deemed wise it is made through the Dean of Students.

SUMMARY OF REQUIREMENTS FOR THE DEGREE

Pomona College awards only the bachelor of arts degree. Commencement honors, *cum laude, magna cum laude,* and *summa cum laude,* are awarded on the basis of the over-all average of the student's work, and of the comprehensive examination.

Units: 126 units (semester hours) of work are required for graduation except for those students who, because of physical handicap or transfer from an institution not having the requirement, are excused from all or part of the required Physical Education. In such instances, and only by vote of the Classification Committee, students may graduate with as few as 120 units. (See Physical Education Activities.)

A "unit" consists of one recitation or lecture period, or one laboratory period a week for one semester. A recitation or lecture period covers fifty minutes; a laboratory period covers, in general, the time of three such periods. In order to complete the course in eight semesters one must take each semester an average of fifteen units of work exclusive of physical education activities.

Grade Points: In order to graduate, a student must not only earn a certain number of units, but also attain an average of at least C grade in all units for which he has registered in the Associated Colleges. An explanation of the grading system will be found on page 79.

Residence: A minimum of four semesters in full-time attendance is required for graduation. For transfer students entering with junior standing, this means the four remaining semesters. For all students, except those engaged in the I.I.T. or C.I.T. programs, both semesters of the senior year must be taken in full-time attendance.

Lower Division Requirements: All students must satisfy the requirements for distribution in the Lower Division as explained on page 82. These requirements should be met in the Freshman and Sophomore years, but their completion may be postponed to the Junior year. Postponement to the Senior year requires the permission of the Classification Committee.

Upper Division Requirements: In the Junior and Senior years all students must undertake a program of concentration leading to a comprehensive examination or its equivalent. (See page 83.)

Physical Education Activities: Physical Education Activities must b included in the registration of each student every semester, in accordanc with the student's classification, until a maximum of six units has been com pleted. Freshmen and Sophomores register for two activities each semeste and Juniors and Seniors one activity. Exemption from this requirement i possible only by permission of the Classification Committee on the recom mendation of the College Physician and the Department of Physical Educatio Transfer students who met the Physical Education requirement of the institu tion from which they transferred need take only the amount required for thei classification.

American History and Institutions: To be eligible for graduation al students are required by the laws of the State of California to pass examination in American history and in American and California institutions, includ ing the provisions and principles of the United States Constitution and th principles of California state and local government as established under th Constitution of this State. While courses are helpful in preparing for th examinations, it is not possible to satisfy the requirements by the passing o any Pomona College course or courses. Examinations to satisfy these require ments will be given semi-annually in September and in the spring on date which will be announced well in advance. Each candidate will be examine once without fee, but if he fails to pass the first time, re-examination wi be given only upon presentation of a receipt from the Business Office for th payment of the usual $2.00 fee for special examinations. Candidates who hav failed once, however, must take re-examinations at the time scheduled fo the regular examinations. These examinations will be objective in characte

Any student who has not satisfied these requirements before the beginnin of the second semester of his senior year will not be considered a candidat for graduation and will not be eligible to take the comprehensive examinatio for that semester. Reading lists for those preparing for the examinations ar obtainable from the departments of History and Government. Members o those departments will offer a series of public lectures each spring which will b mature interpretations of the subject, but which will not in themselves provid all the factual information necessary to pass the examinations. Students failin an examination are advised to take a course in that field before attempting i again.

Foreign Languages: Although the College does not specify a knowledge o foreign languages as a requirement for the degree, all students are urged t take at least one year of foreign language study. Since several department require a foreign language in their programs of concentration, the studen should ascertain the language requirement of the program he is planning t undertake, and if he is not already prepared to meet it, should include th study of the required language in his Freshman and Sophomore years.

Graduation Fee: Every student expecting to graduate at the end of an given semester must file an application for graduation at the Registrar's Offic not later than the beginning of his final semester and must include the grad uation fee ($10.00) with the payment of his other fees at the time of such

egistration. Failure to comply with these two requirements will automatically xclude a student from graduation that semester.

ACADEMIC REGULATIONS AND PROCEDURE

Grades and Grade Points: Each Candidate for graduation must earn an verage of at least C (i.e. twice as many grade points as units) in courses for vhich he has registered in the Associated Colleges.

A (excellent) = 4 grade points per unit.
B (very good) = 3 grade points per unit.
C (average) = 2 grade points per unit.
D (passing) = 1 grade point per unit.
F (failure) = 0 grade points per unit. May not be made up except by repeating course.
I (incomplete due to illness)
W (withdrawn with permission)

All F, and I grades reported by instructors must be accompanied by specific statement in writing of the reason for the grade. In case of an grade, the statement must include a detailed explanation of how the rade can be made up. A copy of this statement is given to the student. ll conditions for removing I grades must be met within seven weeks f the beginning of classes of the following semester, except that, in certain ear courses, the deficiency in the first semester may be removed by suc- essful completion of the work of the second semester, if the instructor so ecommends. I grades not satisfactorily made up within this time limit utomatically become F.

The I mark is given where illness on the part of a student justifies the ranting of additional time for the completion of work. It may be changed whatever grade the student earns. Instructors wishing to give an I grade r a justifiable cause other than illness must first receive permission to do so om the Classification Committee.

An F grade can be made up only by repeating the course. Where the grade is incurred in a Physical Education activity, the same course must repeated when next offered. A student may not continue in a year course her than Physical Education in which he has received an F the first mester. The making up of work which has received the F grade does ot expunge the grade from the record. Although credit and grade points are lowed for the repeated work all units attempted and grade points earned e counted in computing the student's average.

The mark W is used where a student has withdrawn from a course in cordance with the provisions outlined under Changes in Registration.

Amount of work: The College regulates the amount of work a student allowed to carry. The normal registration is 15-16 units of academic work r each of eight semesters plus Physical Education activities and/or Military rill. In addition a student may elect for credit each semester not more than wo of the following: Band, Choir, Orchestra, or Play Production. The mini-

mum full-time load is 12 units of academic work. Registrations above 1 academic units require a recommendation from the student's adviser an the further approval of the Registrar. Registration below 12 units plac the student in Special Standing. A student admitted to the college as special student may be given regular standing only by action of the Admissio Committee. A regular student who drops to special standing may be readmitte to regular standing only by action of the Classification Committee. Speci students are not considered to be candidates for a degree.

Auditing of Courses: Students regularly enrolled in the Associated Colleg may, with the consent of the instructor, audit courses. Such arrangements wi not be officially recorded and will not receive credit. An auditor may not parti ipate actively in course work and may not, therefore, request registration f credit after the normal deadline for requesting course registration. Perso not regularly enrolled in the Colleges may audit courses provided they obtai the instructor's permission and pay the regular auditor's fee of $10 per cours

Quality of work: A student is expected to secure each semester twice many grade points as the total number of units of registration.

By the middle of each semester instructors are requested to report all studen doing unsatisfactory work for the period preceding the date of the report. I addition to these general reports, instructors are encouraged to make repor at any time concerning individual students who are not in good scholast standing. Advisers and deans receive such reports and take such steps as a advisable in each individual case.

At the end of each semester a complete report is made on every studen This report becomes a part of the student's record and indicates his standir in the courses for which he has been registered.

The college may at any time require the withdrawal of a student if t quality of his work seems to warrant such action. Decision in every suc case is reached by the joint action of the Student Affairs and Classificatic Committees in consultation with the student's adviser.

Completion of work: To be counted as work completed in the cours all papers, reports, drawings, and other assigned exercises must be turned to instructors before the final examination.

Academic Record: All collegiate work for which a student registers co stitutes a part of the academic record, whether or not the work is complete Students failing to provide the Registrar's Office with transcripts of registr tions in other institutions may be subject to dismissal from the College.

Reading Period: A reading period of three weeks is provided at the e of each semester for certain upper division courses. Participation is at t option of the instructor. An instructor who desires to have a class participa in the program should announce that fact to the class at the beginning of t semester. In such classes all regular course assignments, term papers, etc., a due prior to the beginning of the reading period, unless specifically assign to be done during that time.

Dismissal from Courses: A student who proves unable or unwilling to arry a course satisfactorily may be dropped from it by the Classification 'ommittee upon the recommendation of the instructor.

Class Attendance: Students are expected to maintain regular attendance t all class appointments in the courses for which they are registered.

While there is no general college requirement, each instructor has the right) establish such specific regulations regarding attendance as may seem best ıited to his particular department.

Final Examinations: Seniors may not take final examinations in courses in ıe semester in which they take their comprehensive examinations. Final ɛaminations are required of all other students in all subjects save as excep- ons are made by action of the Courses of Study Committee.

The schedule of final examinations is prepared by the Courses of Study ommittee. Instructors may not change dates of examinations without the ɔnsent of this Committee. Examinations for individual students may not be iven at other than scheduled times except by consent of the Classification ommittee and on the presentation to the instructor of a Business Office :ceipt for a fee of two dollars ($2.00), unless this fee is remitted by the ommittee.

Field Trips: Field trips are looked upon by the faculty as a legitimate part : certain courses. Permission for such trips is secured by instructors from the ourses of Study Committee at the opening of each semester. Instructors rtify to the Committee the names of students participating in these trips.

Pre-Registration and Registration: On appointed days shortly after the ıblication of the catalog in the spring and before Christmas vacation in ecember all students must pre-register by filling out schedules listing their ıoice of subjects for the following semester. The fee for any change in this 'e-registration is three dollars.

New students pre-register and register on announced days at the opening each semester.

Registration is completed for all students by the payment of tuition on ɔpointed days at the beginning of each semester.

The fee for late pre-registration or late registration is $2.00 for the first second day following the appointed days, and $1.00 additional for every ıy thereafter to a maximum of $10.00.

Students are not allowed credit for courses for which they are not formally gistered.

Students may not enter courses later than two weeks from the beginning of ass work.

Changes in Registration: Upon application to the Registrar's Office and th the approval of his advisers, a student wishing to modify his schedule studies by addition or substitution of courses may do so within two weeks of e beginning of class work. All students except those registering for the first ne are required to pay a change fee of three dollars. No change of registration official unless the student has complied with the procedure established by the gistrar's Office.

Students withdrawing from laboratory fee courses within three weeks o the beginning of classes will be refunded the full fee. One-half the full fe will be refunded to those withdrawing in the following five-week perio but after eight weeks from the beginning of classes no laboratory fees will b refunded.

The last date for withdrawing from a course without penalty is one weel after the date of the mid-semester low grade report. Thereafter, the droppin of a course by a student shall entail for him a grade of F for the course except as circumstances may, in the judgment of the instructor and the Classi fication Committee, warrant a grade of W.

Matriculation: Matriculation implies the proven ability to carry colleg work. To this end the standing of all students is provisional until after the have been in full time attendance for one semester. At that time those nev students are matriculated who have shown themselves in accord with the spiri of the College, have carried a minimum of 12 academic units, and have mad at least an over-all average of C in all work attempted during their term o residence. For those matriculating at the end of their first semester a publi matriculation ceremony is held early in the second semester.

Students failing to matriculate at the end of their first semester may b matriculated at the end of any subsequent semester in which they have carrie a minimum of 12 academic units provided they have met all the above require ments including an over-all average of C on all work attempted during thei whole period of attendance.

Students are not candidates for a degree until they have matriculated.

The Faculty Regulation on English: In the evaluation of all academi exercises the quality of English used by the student will be weighed togethe with the soundness and completeness of his thinking. Faculty members ar expected to report to the Faculty Committee on English all students whos use of English is unsatisfactory. On the recommendation of this Committe a student whose English is persistently unacceptable may be required t withdraw from the College at the end of any semester by the joint action c the Student Affairs and Classification Committees. Habitual and flagrar misspelling is considered a deficiency in English to which this regulatio applies.

REQUIREMENTS FOR DISTRIBUTION IN THE LOWER DIVISION

All students must satisfy, by the end of the Junior year, the followin requirements for distribution in the Lower Division. Distribution require ments shall be met only by the Pomona College courses listed below unles exception is granted by the Classification Committee. Students from othe institutions who plan to transfer to advanced standing in Pomona College ar advised to scrutinize their programs carefully to be sure they have taken th required work and to consult the Registrar concerning any questions as to th acceptance of credit.

1. *English* 1a, 1b. An Introductory Course. A few students who make exceptionally high scores on the College Board Examination and also on an exercise on composition set by the Department of English are exempted from *English* 1a *and are enrolled in English* 1b *in the First Semester.* If they wish, such students may take the *year* course, which is a study of composition and literature on the college level. Remedial work in English below the college level is under the supervision of a special faculty committee.

2. *A year course in a biological science.* Biology 1, Botany 12 and 15; Zoology 1 or 11.

3. *A year course in a physical science:* Astronomy 1 or 61; Chemistry 1; Geology 1 and 2; Physics 1; Physics 51.

Note: A student may satisfy the requirement in either Group 2 or Group 3, but not in both, by offering for admission a recommended unit of high school work in one of the sciences listed in the Group from which he wishes to be excused.

4 and 5. *Two year-courses in the social sciences:* History 1a-1b; Economics 1 and 52; Government 51 and 52; Sociology, any 2 of the following: Sociology 1, 52 or Anthropology 53; Economics 51 and Government 52. Normally History 1a-1b will be taken as one of the two courses.

Note: Sociology 51 and 52 constitute the integrated year course in sociology, but 51 or Anthropology 53 and any *two* upper division courses in the Department also meet the requirement. These need not all be taken in the same year.

6. *A year course in literature, art or music:* This requirement may be met by a course primarily concerned with the appreciation of literature rather than with the mastery of language, or by a year course in art or music. Acceptable courses are:

a. English 50 or six units from English 50a, 56, 57, and 58. Optional for Juniors and Seniors: English 105, 160.

b. In the classics and in modern European languages, any course, in the original or translation, numbered above 50, except courses in composition and conversation.

c. Any year course of not less than four units in art or music.

7. *A year course in philosophy or religion*: Philosophy 57; two courses from the 110, 111, 112 series; Religion 1, 2; 65.

REQUIREMENTS FOR CONCENTRATION IN THE UPPER DIVISION

All students must make a tentative choice of a major field of concentration during the Freshman year and a definite choice by the end of the Sophomore year. During their first two years students will be expected to complete the basic courses required by the department or departments of their choice.

Each student's program of concentration shall culminate in a final written comprehensive examination over the entire field in which he has concentrated.

The student must pass this examination in order to qualify for graduation. I a few departments research projects take the place of the written examinatio

No student is permitted to take both the Comprehensive Examination an final examinations in courses the same semester.

The Comprehensive Examinations must be taken at the officially schedule times. Students who have failed Comprehensive Examinations may reque permission to retake them at the opening of the college year and at the en of each semester. Such applications must be in the hands of the departme concerned by September 1, December 1, or April 1. A fee of $10 will b charged for a re-examination which is taken at other than the times set f a regular comprehensive examination. All students who intend to take th regularly scheduled comprehensive examinations must file an applicatio with the Registrar not later than the beginning of the semester in which th examination is to be taken.

In the event that an undergraduate does not take all or part of his Compr hensive Examination due to illness, he will receive an "I" for the part or par of the examination not taken. It is the responsibility of the undergraduate wh does not take a Comprehensive Examination due to illness to inform th department giving the examination at the earliest possible time.

A program of concentration leading to the comprehensive examination mu include not less than twenty-four hours and not more than thirty-six hou of work in courses numbered over 100 in the chosen field. These limits app to that part of the student's program on which the comprehensive examin tion will be set.

For the entire four years of college, not more than a total of fifty-two un in any one department (in Music not more than a total of sixty units) m be counted toward graduation.

A few concentrations have been arranged so as to permit a combination courses in various departments. The requirements for concentration in a department will be found before the list of courses offered by the departme

HONORS STUDY

Honors study consists of a carefully planned program of tutorial work togeth with related seminars and courses carried out under the direction of a facu member. Pomona College has offered this type of instruction since 1924 f the student who shows the capacity and inclination for more than avera intellectual achievement and self-direction in his study. An Honors progra permits freedom from a considerable part of academic routine during t Junior and Senior years and thus makes it possible for an individual to ga a wider and more profound knowledge of a chosen field and its ramificatio than the usual curriculum permits.

Conduct of Honors Programs: General administration of Honors work vested in the Honors Committee which reviews individual programs a administers the faculty regulations regarding them.

Ordinarily a student enters Honors study at the beginning of his Junior year, and in no case may he be admitted after the beginning of his Senior year. A minimum grade-point average of 3.0 is normally required for enrollment in Honors study. In addition, the recommendation of the department in which the student will work is necessary.

The number of hours allotted to Honors study must be not less than 12 nor more than 18. Within these limits a student may be excused from formal classes. The method of Honors study varies; it may be carried on by tutorial conferences or in seminar or laboratory projects. The general requirement which limits to a total of 52 units the work which may be taken in any one department applies also to Honors programs.

Application forms for admission to Honors study may be obtained at the Registrar's office. They should be filled out in close consultation with the faculty member with whom the program is to be carried on.

Evidence of the success of the student in his Honors work is measured by the quality of the thesis or project with which such a study normally culminates and by written and oral examinations. All or part of the Senior comprehensive examination in a field of study usually forms the written Honors examination in that field. The oral examination will pursue further topics considered in the written examination as well as subjects related to the thesis or project carried out by the student.

A student's performance in his Honors study and examinations is judged by his department, the board which conducts his oral examination, and is reviewed by the Honors Committee. A student who has maintained in all his work a grade-point average of 3.0 and who has met successfully all the requirements of his program of Honors study will be graduated with a notation of that accomplishment. He will also be eligible for such general commencement honors as may be indicated by his whole record.

A student who fails to meet the standard of his Honors program as a whole, but who completes work worthy of credit in the hours allocated to Honors, will receive credit and grades for the latter but will not receive notation of an Honors program completed upon his graduation.

Courses of Instruction

ELEMENTARY courses numbered below 50 are designe primarily for the freshman year. Courses numbered 50 to 9 are either those which follow the lower course or are the mor advanced beginning courses. Courses numbered over 100 are fo juniors and seniors and may not be entered by students withou previous work in the same field, except by written permission o instructors. Courses numbered NC carry no academic credit. I some departments a definite sequence of courses must be followe

The hyphen in a course number designates that credit will not b allowed for only one semester of the year course. When cours numbers are connected by a comma, credit is given for a singl semester, but unless a passing grade has been received for the firs semester of the course entrance to the second semester is by pe mission of the instructor.

Any course may be withdrawn if the enrollment is less than fiv

Except by special permission, credit for only one unit of wor in a department is not allowed.

COURSES IN THE ASSOCIATED COLLEGES

Following the departmental offerings of Pomona College are liste certain courses in Scripps College and Claremont Men's Colleg open to Pomona sophomores, juniors and seniors under approve conditions. Normally only those courses so listed are open to Po mona College students. It should be noted that most of the Scripp College courses are year courses and consequently credit canno be allowed for only one semester. To enroll in courses other tha those listed, students must first obtain a permission slip from th chairman of the corresponding department at Pomona. Each regula student in residence in Pomona College shall, however, select no less than half of his registration each academic year from course in Pomona College. Normally freshmen will take their entir programs of study in the college of their residence. In a few depar ments involving the use of physical equipment and laboratory spac such as art and the sciences, it is necessary to impose limits on th exchange privileges.

Certain graduate courses in the Claremont Graduate School ar also open to Pomona seniors who are concentrating in the field

in which the courses are offered. Short titles for these courses are given following departmental offerings. For fuller description consult the catalog of the Claremont Graduate School. Permission to enroll in graduate courses must be secured from the chairman of the department in which the senior is concentrating and from the instructor giving the course.

Where a course in Scripps, Claremont Men's College, or the Graduate School duplicates the material of a Pomona course, credit will not be given for both.

DIVISIONS

The courses in the Pomona College curriculum are arranged in three divisions as follows:

DIVISION I [*Humanities*] Art, Chinese, Classics, Comparative Literature, English, German, Music, Philosophy, Romance Languages, Russian, Speech and Dramatics.

DIVISION II [*Natural Sciences*] Astronomy, Biology, Botany, Chemistry, Geology, Mathematics, Military Science, Physics, Psychology, Zoology.

DIVISION III [*Social Sciences*] Economics, Education, Geography, Government, History, Oriental Affairs, Physical Education, Religion, Sociology.

Art

Two types of concentration are open to students of art within the department: the History of Art and the Practice of Art. Specialization may be determined in the second year, but correlation between the history and practice of art is maintained.

Art 1 or Art 51 is normally a prerequisite for advanced courses in the History of Art. Art 1 or Art 3 is normally a prerequisite for advanced courses in the Practice of Art.

Not more than 16 hours of courses numbered under 100 are accepted toward graduation.

A reading knowledge of French or German is strongly recommended. In many graduate schools candidates for the degree of Master of Arts are required to have a reading knowledge of *two* foreign languages.

CONCENTRATION: HISTORY OF ART

Lower Division Requirements: History 1, Art 1, 9, 51, or History 1, Art 9, 51.

Upper Division Requirements: 30 units of upper division courses, includin 18 units of art history and Art 178a and b.

CONCENTRATION: PRACTICE OF ART

Lower Division Requirements: History 1, Art 1, 9 and 61 or 65, or History Art 3, 9, 51 and 61 or 65.

Upper Division Requirements: 30 units of upper division art courses. In th practice of art, 16 units including Art 120 and 6 units of Art 185 or 10 units Art 162. In the history of art 12 units.

1a, 1b. INTRODUCTION TO THE VISUAL ARTS. *Mrs. Fulton, Mr. Grant an Staff.* The elements of art and their formal organization in theory and pra tice. Introduction to the technique, the history and the criticism of art. N previous training in art is expected for this course. 4 units. 2 sections. Lectu *MW, 9, 11,* Studio *MW, 1-3, 3-5.*

HISTORY OF ART

51a-51b. SURVEY OF THE HISTORY OF WESTERN ART. *Mr. Selz.* First semeste from the prehistoric period through the Gothic era; second semester: from th Renaissance to the contemporary scene. This course or its equivalent normally a prerequisite for advanced courses in the history of art. 3 unit *MWF, 10.*

107a, 107b. ANCIENT ART AND ARCHAEOLOGY. *Mr. Carroll.* First semester: th art of Egypt, the Near East, Crete and Greece through the 5th century. Secon semester: Hellenistic Greece and the Roman Empire. 3 units. *TThS, 10.*

110a, 110b. MEDIEVAL ART. First semester: Early Christian, Byzantine an early Romanesque art. Second semester: later Romanesque and Gothic ar 3 units. (Omitted 1956-57.)

113a, 113b. MODERN ART. *Mr. Selz.* First semester: from the Frenc Revolution through Impressionism. Second semester: from Impressionism t the present. 3 units. *MWF, 8.*

117a, 117b. ART OF THE FAR EAST. *Mr. Davidson.* The art of India from it beginnings to the end of Buddhism. Indian art in Southeast Asia. Early a of China. Second semester will cover the Buddhist and secular art of Chin and the art of Japan. 3 units. Arranged.

118a. THE ITALIAN RENAISSANCE. *Mrs. Fulton.* Painting and sculpture i Florence and Siena from Giotto to Michelangelo. 3 units. First semeste *MWF, 2:15.*

118b. MANNERISM AND BAROQUE IN SOUTHERN EUROPE. *Mrs. Fulton.* The a of Italy and Spain from Titian to Velasquez. 3 units. Second semester. *MWF 2:15.*

119a, 119b. NORTHERN RENAISSANCE AND BAROQUE ART. *Mrs. Fulton.* Fir semester: Netherlandish, German and French art through the 16th centur

econd semester: French, Dutch and Flemish art through the 18th century. 3 nits. (Omitted 1956-57.)

21a, 121b. American Art. First semester: Pre-Columbian and Colonial art n the Americas. Second semester: The art of the United States and Mexico o the present. 3 units. (Omitted 1956-57.)

78a, 178b. Problems in the History of Art. *Mr. Selz.* The study of a articular artist, period, school or movement in art or art theory. Offered pri- arily for majors. 3 units. Arranged.

PRACTICE OF ART

a-3b. Design. *Mr. Grant.* A basic course investigating the fundamentals of esign as applied to painting and drawing. 2 units. *TTh, 7-9 p.m.*

a-9b. Beginning Sculpture. *Miss Waring.* A basic course in sculpture, omprising a study of the nature of form. Consideration of sculptural tech- iques and materials. 2 units. *TTh, 3:15-5:05.*

a, 61b. Drawing. *Mr. Hammersley.* An introductory course investigating arious drawing problems and methods as applied to the human figure, still fe and landscape. Completion of 1a-b or 3a-b or permission of the instructor required. 2 units. *TTh, 9-11.*

a, 65b. Intermediate Sculpture. *Miss Waring.* Continuing study of the ture of form. 2 units. *TTh, 3:15-5:05.*

5a, 105b. Advanced Drawing. *Mr. Hammersley.* 2 units. *TTh, 9-11.*

0a, 120b. Painting. *Mr. Hammersley.* A course investigating various paint- g problems and methods as applied to still life, the human figure and ndscape. The painting course is essentially a continuation of the drawing ass, with the addition of an emphasis on the use of paint. 2 units. *TTh, 15-3:05.*

2a, 162b. Advanced Sculpture. *Miss Waring.* A course open only to ad- nced students of ability for the development of original problems in various edia. May be repeated for credit. 1 to 3 units. *TTh, 3:15-5:05.*

5a, 185b. Problems in Painting and the Graphic Arts. *Mr. Grant* or *r. Hammersley.* Opportunity is given for the pursuit of individual projects suit the interest and ability of the student. May be taken under both in- uctors concurrently, and can be repeated for credit. 1-3 units. Arranged.

RLY American Civilizations. See Sociology and Anthropology 130.

AVAILABLE AT SCRIPPS COLLEGE

121. Painting. *Mr. Dike, Staff.* Prerequisite II-2 or equivalent. Two sec- ns. *MWF, 1:15-4:05, TTh 1:15-4:05* and 3 hours arranged.

122. Weaving. *Mrs. Stewart.* One or two year course. Prerequisite II-2 or uivalent. By permission of instructor. *MWF, 1:15-4:05.*

II-123. Ceramics. *Mr. Petterson.* One or two year course. Prerequisite II-2 o equivalent. Two sections. *MWF, 1:15-4:05, TTh, 1:15-4:05,* and 3 hours a ranged.

II-126. Design. *Mrs. Ames.* Year course. Prerequisite II-2 or equivalent. *TT 1:15-4:05* and 3 hours arranged.

II-130. Sculpture. *Mr. Stewart.* One or two year course. Prerequisite II-2 o equivalent. *MWF, 1:15-4:05.*

II-141. Architectural Design and Planning. *Mr. Criley.* Prerequisite II or equivalent and permission of instructor. Second semester only. *TTh, 1:1 4:05* and 3 hours arranged.

II-145. History of Art and Architecture. *Staff.* Year course. *MWF, 8.*

IV-161a, b. Philosophy of Art. *Mr. Greene.* Year course. By permission instructor only. *MWF, 11.*

Astronomy

A minimum program for concentration in Astronomy, with a minor Mathematics and Physics, must include Astronomy 61a, b, 156a, b, Physics 51 b, 113a, b, 153, 101a, b and Mathematics 65a, b and 151 a, b. For majors Astronomy intending to proceed to graduate study, the following courses a also required: Astronomy 180a, b, Physics 141a, b and Mathematics 152a, A reading knowledge of French and German is strongly recommended.

1a, 1b. Introduction to Elementary Astronomy. *Mr. Routly.* A descripti account of the solar system, constellations and galaxy. Periodic observation interesting celestial objects with equipment at the Observatory. Field trips the astronomical centers of the region. No prerequisites. 3 units. *TThS, 9.*

61a, 61b. General Astronomy. *Mr. Routly.* A more thorough version Astronomy 1. Additional topics include astronomical instruments, celest mechanics, navigation, stellar types, spectral classification and extra-galac nebulae. Laboratory periods are compulsory and form an integral part of t course. Prerequisite: Mathematics 1a, b taken previously or concurrent Laboratory fee $4.00 per semester. 4 units. Class *MWF, 9.* Laboratory to arranged.

156a, 156b. Astrophysics. *Mr. Routly.* The application of physical techniqu to astronomical problems of current research interest. The elements of atom and molecular spectroscopy, stellar atmospheres, stellar interiors and int stellar space. Prerequisites: Mathematics 151a, b taken previously or cc currently and Physics 51a, b. No previous training in Astronomy require Course intended for majors in Astronomy and other qualified science studen 3 units. *MWF, 10.*

80a, 180b. Selected Topics in Astronomy. *Mr. Routly.* Intended for majors n Astronomy proceeding to graduate study. Contents will consist of topics ot covered in Astrophysics 156a, b. Some suitable investigation, equivalent to senior thesis, will be conducted by each student during the year. Prerequisite: strophysics 156a, b, taken previously or concurrently. 3 units. Classes to be ranged.

Biology

equirements for Concentration: Botany 12, 15, 75, 107, 117, and 6 units from 03, 105a, 123a, and 175a; Biology 112; Zoology 1 and 37 (or 121 and 135); ldditional upper division units in Botany, Biology, or Zoology to make a tal of 30 in a well-balanced program; at least six units chosen from Chemis- y, Physics, or Geology.

1. General Biology. *Mr. Phillips.* A general course designed for those ho do not intend to take further work in the biological sciences. Students ho have had high school courses in Biology, Botany, or Zoology should ke Botany 12 and 15 or Zoology 1 or 11 instead of Biology 1. Illustrations awn largely from the plant kingdom. Laboratory fee $6.00. 3 units. First second semester; may precede or follow 1b. May not be entered in the cond semester unless preceded by 1b. Class, first semester, *MWF, 10;* second mester, *MWF, 11.* Laboratory, *W, 1:15-2:35* or *2:45-4:05.*

1a. General Biology. *Mr. McCarthy, Mr. Ryerson.* With Biology 1a rming a year course; illustrations drawn largely from the animal kingdom d human biology. Lectures, demonstrations, and laboratory. Laboratory fee .00. 3 units. First or second semester; may precede or follow 1a. May not entered in the second semester unless preceded by 1a. Class, first semester, *WF, 11;* second semester, *MWF, 10.* Laboratory *M, 1:15-2:15,* or *3:15.*

5. Bacteriology. *Mr. Amrein.* General study of bacteria including their portance in disease and industry. Laboratory exercises on methods of cul- e and examination. Prerequisite: one year of biological work. Laboratory $8.00. 4 units. First semester. Lectures *MWF, 9.* Laboratory *MW, 2:15-4:05.*

12. Genetics. *Mr. McCarthy.* This course considers modern developments the study of heredity and evolution and their general application to plant d animal breeding and to eugenics and race questions. Prerequisite: one r of biological work. 3 units. Second semester. *MWF, 11.*

13. History of Biology. *Mr. Amrein.* A historical consideration of the velopment of biological theories and concepts and their influences upon iety. 3 units. First semester. *MWF, 11.*

Botany

Botany Concentration: LOWER DIVISION COURSES, Botany 12, 15, 75 (at lea 3 times). UPPER DIVISION COURSES, Botany 103, 105, 107, 117, 123a, 127, 123b, 158, and 175a (or, through 1956-57, Biology 112); additional courses in botar (courses 103-175) selected to make a total of 27 to 36 units of upper divisio work; 199. RELATED FIELDS, Zoology 1 or 11; Chemistry 2a (or 1a); (st dents emphasizing plant physiology should have additional courses); hi school or college physics (Physics 1 or 51 or Geology 1). Prospective can dates for graduate work should consult the department concerning forei language requirements for advanced degrees. English 63 is recommended.

Seniors with concentration programs in botany or in biology emphasizir botany are required either (1) to present a satisfactory paper and to pa an oral examination on the field of the paper, or (2) to pass the seni comprehensive examination.

Plant Collection: All students concentrating in botany should consult M Benson concerning the plant collection built up in various courses. This is graduation requirement, and the collection must be submitted for inspecti at the time of the senior comprehensive examination. Credit for individu work on the collection may be had by registration in Botany 75. *This cou should be taken in the last semester before graduation* in order to bring t collection into good order before it is submitted for the final inspection.

Biology Concentration: See Biology listing.

Botany-Chemistry Concentration: LOWER DIVISION COURSES, Botany 12, 15, 75 (at least twice); Chemistry 2 (or 1), 59; Physics 51, 52. UPPER DIVISIO COURSES, Botany 103, 105a, 107, 117, 123, and 158; Chemistry 106, 110a, 11 Recommended electives from the following list: Biology 112; Botany 10 167, 175; Chemistry 158, 184, 187; Zoology 1, 37 or 135. Botany 12 and and Chemistry 1 or 2 should be taken in the freshman year, and the f program should be planned as early as possible.

Note: Any Course numbered above 99 may be taken for graduate credit.

12. GENERAL BOTANY. *Mr. Benson* and *Mr. Phillips.* An elementary stu of biological principles with emphasis upon the microscopic structure a the physiology of flowering plants, evolution, and heredity. Laboratory f $6.50. Ordinarily 3 units, but for students who have had college biology zoology, sometimes by permission 2 units. First semester *MWF, 11,* must kept open for class. Laboratory *T, 1:15-3:05.* Field trips arranged.

15. FIELD CLASSIFICATION OF PLANTS. *Mr. Benson.* An elementary discussi and field course in classification of primarily the flowering plants but also ferns and cone-bearing trees. Students concentrating in botany or biology wi emphasis on botany must, others may, register for at least 1 unit of Botany concurrently. Laboratory and field trip fee $8.75. 3 units. Second semest Class *MF, 11.* Field trips, *T, 1:15-3:05.* There are some longer trips.

5. Individual Plant Classification. *Mr. Benson.* Classification of vascular lants (ferns, cone-bearing trees, and flowering plants). The student collection specimens is used for developing a comparative method of plant identification. May be taken as an Elective, but required concurrently with Botany 5 for those concentrating in botany or in biology with emphasis on botany. lay be repeated for credit. Permission of instructor required. Laboratory fee 2.00 per unit. 1 or 2 units. First semester, ordinarily *M, 1:15-2:05* and ranged. Second semester, arranged, but ordinarily including either *M, 1:15-05* or (especially when taken the first time) *W, 11.*

. Elementary Botanical Problems. *Staff.* Individual laboratory work in ich fields as (a) structure and classification of algae, (b) culture, special ysiology, structure, or development of plants, or (c) ecology. Each semester, or 2 units, but not more than 1 unit for the first enrollment. May be repeated r credit. Permission of the instructor required. Laboratory fee $2.00 per unit. rranged.

3. Plant Ecology (Autecology). *Mr. Phillips.* The effect of environment on plants of forests, deserts, chaparral, grassland, and woodland; ecological laptation. Prerequisite: Botany 12 or permission of the instructor. Laboratory e $8.00 and breakage deposit $5.00. 3 units. First semester. Class *TTh, 10;* boratory and field trips, *F, 1:15-4:05* and occasional longer trips. Given in ternate years.

5a, 105b. Flowering Plants (Classification). *Mr. Benson.* Evolutionary ries of orders and families; history, principles, and methods of classification the higher taxa; geographical distribution correlated with geological history. erequisite: Botany 15. Laboratory and field trip fee $6.00 each semester. units. Class *W, 1:15-2:05;* laboratory, *W, 2:15-4:05.* Field trips arranged. iven in alternate years.

7. Non-Vascular Plants (Morphology). *Mr. Carlquist.* Structure, develment, evolutionary series, and relationships of classes and orders of algae, ngi, mosses, and liverworts. Prerequisite: Botany 12 or equivalent. Laboraty fee $5.00 3 units. Second semester. Class *MW, 9;* laboratory and field ps, *M, 2:15-5:05.* Given in alternate years.

7. Pteridophytes and Gymnosperms (Morphology). *Mr. Carlquist.* ucture, development, evolutionary series, and relationships of the classes d orders of pteridophytes (ferns, etc.) and gymnosperms (cone-bearing es). Prerequisite: Botany 12 or equivalent. Laboratory fee $5.00. 3 units. cond semester. Class *TTh, 8;* laboratory and field trips, *M, 2:15-5:05.* ven in alternate years. (Omitted in 1956-57.)

3a, 123b. Plant Physiology. *Mr. Phillips.* Physiological processes and prinles, including photosynthesis, germination, dormancy, water relations, neral nutrition, respiration, growth and growth hormones, flowering and iting. Prerequisite: Botany 12 or Biology 1; Chemistry 2a (or 1a), or mission of the instructor. Laboratory fee $10.00 each semester and breakage

deposit $5.00. 3 units. Class *TTh, 9;* laboratory *Th, 1:15-4:05.* Given alternate years. (Omitted in 1956-57.)

127. Flowering Plants (Morphology). *Mr. Carlquist.* Structure, life history, and development of angiosperms (flowering plants). Prerequisite: Botany 12 or equivalent. 3 units. First semester. Laboratory fee $5.00. Class *MW, 9;* laboratory *M, 2:15-5:05.* Given in alternate years.

158. Advanced Plant Ecology (Synecology). *Mr. Phillips.* Analysis of plant communities; factors affecting plant geography; major plant communities primarily of the United States. Prerequisites: Botany 12, 15, and 10, or permission of the instructor. Laboratory fee $8.00. 3 units. Second semester. Class *TTh, 10;* laboratory and field trips, *F, 1:15-4:05,* and occasional long trips. Given in alternate years.

167. Plant Microtechnique. *Mr. Carlquist.* Preparation of miscroscope slides to represent structure or development of plants or for cytological data. Part individual work. Prerequisite: Botany 12 or the equivalent; or permission of the instructor. Laboratory fee $7.00 and the cost of special materials for the student's slide collection. First semester. 2 or 3 units. Class and laboratory arranged on *T* between *1:15 and 5:05.* Given in alternate years. (Omitted in 1956-57.)

175a, 175b. Heredity, Evolution, and Classification of Species. *Mr. Benson.* Modes of inheritance; field studies on the evolution and definition of species; principles of organizing plant groups into genera, species and varieties; choice of scientific names; description; methods of preparation and documentation of technical papers. Prerequisite: Botany 12 or Biology 1 or Zoology 1 and Botany 15; or permission of the instructor. Laboratory and field trip fee $9.00. First semester, 3 units (2 if preceded by Biology 112); second semester, 2 units. Class *MW, 10* and (first semester) either class *F, 10,* or a field trip *T, 1:15-4:05.* Given in alternate years. (Omitted in 1956-57.)

181. Advanced Botanical Problems. *Staff.* Individual work in any field of botany. The student may anticipate preparation of a thesis for the Master's Degree by beginning a problem or continuing one begun in upper division courses. Permission of the instructor required. Laboratory fee $2.00 per unit. 1 to 3 units. Each semester. May be repeated for credit. Arranged.

199. Senior Seminar. *Mr. Benson, Mr. Phillips, and Mr. Carlquist.* Discussion of botanical problems; preparation and illustration of scientific papers. Required of all seniors in botany or in biology with emphasis upon botany; open to others. May be repeated for credit. 1 unit. Second semester. Arranged.

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Graduate work in botany is offered through the Claremont Graduate School by the joint staffs of Pomona College and the Rancho Santa Ana Botanic Garden and the Graduate School. The facilities for research in plant classification are particularly good because the Pomona College Herbarium includ

bout 315,000 specimens and the combined herbaria more than 400,000. The braries of both institutions have been developed primarily for work in this eld, and the Garden has unusual facilities for experimental study of species.

GRADUATE COURSES OPEN TO QUALIFIED UNDERGRADUATES

OTE: The prerequisites listed below apply ordinarily to Pomona College udents. Written permission of the Pomona College department is required.

07. PLANT ANATOMY. *Mr. Munz.* Internal structure of higher plants. Prequisite: 127. 3 units. Second semester. One 2-hour class period and one boratory. Arranged. (Omitted in 1956-57.)

0. CYTOLOGY. *Mr. Lenz.* Structure and function of the plant cell. 3 units. rst semester. Arranged.

7. MORPHOLOGY AND CLASSIFICATION OF ALGAE. *Mr. Benjamin.* A general rvey of the algae. Prerequisite: 107. 3 units. First semester. Arranged.

0a, 220b. EVOLUTION. *Mr. Grant.* Variation, selection, drift, isolating echanisms, evolutionary rates, evolutionary trends. Prerequisite: Botany 175. units. First semester. *TTh, 1:15.*

5a, 225b. PHYLOGENY OF ANGIOSPERMS. *Mr. Munz.* Evolution of and relanships in flowering plants. Prerequisite: 105a and concurrent registration r 105b. 2 units. Arranged. (Omitted in 1956-57.)

7a, 227b. MORPHOLOGY AND CLASSIFICATION OF FUNGI. *Mr. Benjamin.* A neral course in mycology. Prerequisite: 107. 4 units each semester. Arranged. mitted in 1956-57.)

2. PREPARATION AND ILLUSTRATION OF BOTANICAL PAPERS. *Mr. Benson.* ientific writing; criticism and revision of papers; illustration with pend-ink; photographic illustration. 2 units. First semester. Arranged.

7. MORPHOLOGY AND CLASSIFICATION OF BRYOPHYTES. *Mr. Phillips.* A survey the liverworts and mosses. 2 units. Second semester. Arranged.

3. PLANT GEOGRAPHY. *Mr. Munz.* The vegetation of the earth with reference geological history, present distribution, and evolution. Prerequisite: 105a d concurrent registration for 105b. 2 or 3 units. First semester. Arranged. mitted in 1956-57.)

. MORPHOLOGY AND CLASSIFICATION OF VASCULAR PLANTS EXCLUSIVE OF GIOSPERMS. *Mr. Munz.* Research literature, general papers, and books; a n-laboratory course. Prerequisite: 117. 3 units. First semester. Arranged.

. TAXOGENETICS. *Mr. Grant.* The evolutionary effect of natural hybridizan in its various forms, including introgression, polyploidy, permanent uctural hybridity, and apomixis. Lectures, readings, and field study. Preuisite: Biology 112; Botany 175. 3 units. Second semester. Arranged.

Chemistry

Concentration Requirements: Chemistry 1, 59, 106, 107, 110, 111, 112, 158, 15
Physics 51, 52; Mathematics 1, 65.

Pre-professional Program: Students who plan to go to graduate school i
chemistry should take in addition to the courses listed above Chemistry 18
185 and 187. This program has been approved by the American Chemic
Society Committee for Professional Training of Chemists.

Zoology-Chemistry Concentration. See Zoology.

Fees: A fee is required for each laboratory course, to cover the cost of chem
cals. In addition a locker deposit must be made to cover breakage and loss
equipment. The unused balance of the deposit is returned at the end of tl
year.

1a, 1b. Introductory Chemistry. *Mr. Smith* and *Mr. Allen.* Beginnir
course to acquaint the student with basic principles of chemistry and reactio
of the more common elements. Fee $6.00 each semester. Deposit $5.00 for tl
year. 4 units. Lectures, *MWF, 9;* laboratory *TTh* or *F, 1:15-4:05.*

Second Year Chemistry. Exceptionally well prepared students may, with the consent of instructor, omit Chemistry 1 and start with 59. The courses in qualitative and quantitative analysis, Chemistry 59, 106, are coordinated to give an advanced review of chemical reactions and theories along with the study of analytical methods.

2a, 2b. Bio-Organic Chemistry. *Mr. Hansch.* An introduction to the phy
cal principles of chemistry followed by a survey of organic chemistry and i
applications to bio-chemistry. Fee $6.00 each semester. Deposit $5.00 for tl
year. 4 units. Lectures *MWF, 8;* laboratory *M, 2:15-5:05.*

59. Qualitative Analysis. *Mr. Fuller.* Separation and identification of tl
common inorganic ions by semimicro techniques. The course is offered f
3 or 4 units. The 4 unit course contains additional lectures on the chemist
of the elements and will be taken by students who have not taken Chemistry
or its equivalent. Prerequisite: Chemistry 1 or consent of instructor. Fee $6.0
deposit $5.00. 3 or 4 units. First semester. Lecture *TThS, 10;* laboratory *T*
W, 1:15-4:05.

106. Beginning Quantitative Analysis. *Mr. Fuller.* An introduction to v
umetric and gravimetric analytical procedures. The course is offered for 3 or
units. The 4 unit course contains additional lectures on selected topics
inorganic chemistry and will be taken by students who have not tak
Chemistry 1 or its equivalent. Prerequisite: Chemistry 59. Fee $8.00, depo
$10.00. 3 or 4 units. Second semester. Lectures, *TTh, 10;* laboratory, *M, 2:1*
5:05, and *W, 1:15-4:05,* or *TTh, 1:15-4:05.*

107. Advanced Quantitative Analysis. *Mr. Smith.* An introduction
modern instrumental analysis. Prerequisite: Chemistry 106 or equivalent. F

8.00, deposit $10.00. 3 units. First semester. Laboratory *M, 2:15-5:05* and *TW, :15-4:05.*

10a, 110b. Elementary Organic Chemistry. *Mr. Allen.* The first semester evoted to the study of aliphatic compounds and the second semester to aro- natic. Prerequisite: Chemistry 1 or equivalent. 3 units. Lectures *MWF, 11.*

11a, 111b. Introduction to Organic Laboratory Methods. *Mr. Hansch.* nstruction in laboratory operations, qualitative organic analysis and organic reparations. Students concentrating in chemistry should take Chemistry 112a, 12b concurrently. Fee $6.00, deposit $10.00 each semester. 1 unit. Laboratory , *1:15-4:05.*

12a, 112b. Organic Syntheses. *Mr. Allen.* Advanced preparations to sup- lement the work of Chemistry 111. Fee $7.50, deposit $5.00. 1 unit. Labora- ry *Th, 1:15-4:05.*

58a, 158b. Physical Chemistry. *Mr. Smith.* Prerequisite: Chemistry 106, hysics 51, Mathematics 65. Chemistry 110 may be taken concurrently. 3 units. ectures *TThS, 10.*

59. Physical Chemistry Laboratory. *Mr. Smith.* Prerequisite: Chemistry 58a, b. (158b may be taken concurrently.) Fee $10.00, deposit $5.00. 3 units. econd semester. Laboratory *M, 2:15-5:10* and *TW, 1:15-4:05.*

81a, 181b. Use of Chemical Literature. *Mr. Allen.* Lectures and assigned oblems on the methods for effective use of chemical literature. Prerequisite: hemistry 110, German 1. 1 unit. Arranged.

4. Advanced Organic Chemistry. *Mr. Hansch.* A survey of organic action mechanisms. Prerequisite: Chemistry 110, 158a. 3 units. Second mester. Lectures *MWF, 10.*

5. Advanced Inorganic Chemistry. *Mr. Fuller.* The lectures will include discussion of atomic and molecular structure and such selected topics as ordination compounds, nuclear chemistry, and chemical statistics. Prereq- sites: Chemistry 110, 158 (may be taken concurrently). 3 units. First mester. Lectures *MWF, 10.*

7. Qualitative Organic Analysis. *Mr. Hansch.* The use of intuitive thods for the identification of organic compounds. Prerequisite: Chemistry 6, 110, and reading knowledge of German. Fee $7.50, deposit $5.00. 3 units. rst semester. Laboratory *W, 1:15-4:05,* plus at least two arranged periods.

9. Undergraduate Research. *Staff.* Seniors may take 6 units of research Physical, Organic or Analytical Chemistry, under direction of a staff mber. The work may be taken in one semester or extended over two. A sis is required. Prerequisite, average of B in chemistry courses and consent instructor. Fee $3.00 per unit, deposit $5.00. Each semester. Arranged.

Classics

In the interest of providing a maximum offering in Classics, a coordinate program is offered by the departments of Pomona and Scripps College.

For concentration in Classical languages and literature a student is require to take at least 24 units in courses numbered over 100 in Greek and Lati languages and 12 units in modern European languages (French and Germa preferred). A selected reading list from Greek and Latin authors must b completed by the student in class work or outside reading to the satisfactio of the department. Additional courses in ancient and medieval histor philosophy, Continental and English literature, and modern Europea languages are recommended.

Greek

51a-51b. Elementary Greek. *Mr. Carroll.* Greek grammar and syntax fo beginning students. 3 units. *MWF, 8.*

101a, 101b. Intermediate Greek. *Mr. Carroll* or *Mr. Palmer* (*Scripps*). Fo students with Greek 51 or equivalent. Selected readings from Classical an New Testament Greek. 3 units. Arranged. (Omitted in 1956-57.)

182a, 182b. Greek Readings and Composition. *Mr. Carroll.* For student with Greek 101 or equivalent. This course may be repeated for credit wit permission of the department. 3 units. Arranged.

Latin

1a-1b. Elementary Latin. *Mr. Carroll* or *Mr. Palmer* (*Scripps*). Lati grammar and syntax for beginning students. 3 units. *MWF, 8.* (Omitted i 1956-57; offered at Scripps.)

57a, 57b. Intermediate Latin. *Mr. Carroll* or *Mr. Palmer* (*Scripps*). Fo students with one or two years of secondary school Latin or Latin 1. Reading from Cicero, Vergil and Ovid with grammar review. 3 units. Arranged.

117a, 117b. Roman Writers of the Republic. *Mr. Carroll* or *Mr. Palme* (*Scripps*). For students with three or more years of secondary school Latin o Latin 57. Selected readings from Roman literature of the first and secon centuries B.C. 3 units. Arranged. (Omitted in 1956-57; offered at Scripps.

118a, 118b. Roman Writers of the Empire. *Mr. Carroll* or *Mr. Palme* (*Scripps*). For students with three or more years of secondary school Lati or Latin 57. Selected readings from Roman literature of the first and secon centuries B.C. 3 units. Arranged. (Omitted in 1956-57; offered at Scripps.

181a, 181b. Latin Readings and Composition. *Mr. Carroll* or *Mr. Palme* (*Scripps*). For advanced Latin students at the permission of the instructo This course may be repeated for credit with permission of the department. units. Arranged. (Omitted in 1956-57.)

GREEK AND ROMAN LITERATURE IN TRANSLATION

160a, 160b. CLASSICAL MYTHOLOGY AND LITERATURE IN ENGLISH TRANSLATION. *Mr. Carroll.* Mythology and the growth of literature with selected readings in Graeco-Roman epic, lyric, drama and prose literature. No prerequisite. 3 units. *TThS, 9.*

AVAILABLE AT SCRIPPS COLLEGE

I-106. GREEK AND ROMAN COMEDY AND SATIRE. *Mr. Palmer.* Year course. Arranged.

I-107. GREEK AND ROMAN TRAGEDY. *Mr. Palmer.* Year course. Arranged. (Omitted in 1956-57.)

* * *

HISTORY OF GREECE. For description see History 101.

HISTORY OF ROME. For description see History 102.

ANCIENT ART AND ARCHAEOLOGY. For description see Art 55a, 55b.

Comparative Literature

Concentration in Continental Literature. Requirements: 24 units in courses numbered over 100. Twelve of these units must be in Continental Literature (in translation), twelve in European or classic literature in the original language. Electives in English literature and Classics 160a, b are strongly recommended.

181a, 181b. READINGS IN CONTINENTAL LITERATURE IN TRANSLATION. *Mr. Baumann.* A study of outstanding works of Dante, Stendhal, Flaubert, Dostoevsky, Tolstoy, Thomas Mann and others. (Open to Seniors. Others admitted only on permission of the instructor.) May be repeated for credit. units. Arranged. (Omitted in 1956-57.)

AVAILABLE AT SCRIPPS COLLEGE

152a, 152b. COMPARATIVE LITERATURE. *Mr. Merlan.* Year course. *W. 4:15-5:05.*

Economics

Prerequisites: Economics 51 and 52, or equivalent, are prerequisites for all advanced courses in economics. A grade of C or better in both courses is required for concentration in the field.

Required courses: Economics 57, 71, 103, 104, 109, 110, and other courses in economics to bring the total of upper-division courses to 24 units.

Recommended Programs: Economics 51, 52, 57 and 71 should be taken in the sophomore year, 103, 104, 109, and 110 in the junior year, and other courses in the field of the student's special interest during the senior year. In order to achieve a desirable balance between breadth and depth, students

should seek a well-integrated selection of courses in the humanities, social sciences, and sciences during each of the four years.

Students who are concentrating in Economics primarily for cultural reasons should include 190 and 199 in their programs.

Students who plan to attend a graduate school of business or enter a corporate training program should include 72, 111, and expository writing.

Pre-legal students should take a full year of accounting, elementary and intermediate, and 189 and 191 in addition to the core curriculum.

Economics-Engineering students should take both the 103, 109 and the 104, 110 sequences before taking courses numbered over 150.

Students who contemplate a career in teaching or research, whether in educational institutions, non-profit research organizations or private industry, should include courses in mathematics and foreign language, inasmuch as both are often required for advanced degrees in Economics.

Three-Year M.A. Program: Proximity and cooperation between Pomona College and the Claremont Graduate School make it possible for students to plan, beginning with their junior year, a three-year program enabling them to earn both the B.A. and M.A. degrees. Any student interested in pursuing such a program is invited to confer with the Department.

AMERICAN ECONOMIC AND POLITICAL INSTITUTIONS

Pomona College believes that its graduates should be familiar with the economic and political foundations of American life. To this end the Departments of Economics and Government have organized a year course in American economic and political institutions through which students *who cannot take a full year* in each subject may nevertheless gain some understanding of both fields. This course combines a semester's study of economics with another semester devoted to American Government and the formal classwork is supplemented by a series of special lectures which all students are expected to attend. These lectures (which are open to other students and faculty as well) are designed to present the insights of persons who have had practical experience in business and government and the speakers are chosen from leaders in government, industry, finance, labor and law.

That part of the course pertaining to economic institutions (Economics 51) is offered only during the fall term and that pertaining to politics (Government 52) only in the spring but students may begin the course at whichever time best suits their schedules. The combined course may be offered in fulfillment of one of the requirements for distribution in the lower division. For outline of contents and time schedule see regular course descriptions under the respective departments.

ECONOMICS

51. Economic Analysis. *Staff.* An introduction to modern economic society with emphasis on the nature and operation of the American economy. 3 units. First semester. *MWF, 9, 10, 11; TThS, 9, 10;* for those continuing second semester with Government 52, *MWF, 8; TThS, 8.*

52. Economic Problems and Policies. *Staff.* A continuation of Economics 51 with emphasis on current problems and related public policies. Prerequisite: Economics 51. 3 units. Second semester. *MWF, 9, 10, 11; TThS, 9, 10.*

57. Statistics for the Social Sciences. *Mr. Child.* A course in the application of quantitative method to economic and social problems with emphasis on the interpretation of the results obtained. (Credit will not be given for both Economics 57 and Psychology 102.) 3 units. Second semester. *TTh, 8;* laboratory, *T* or *W, 1:15-3:05.*

71. Elementary Enterprise Accounting. *Mr. Rostvold.* The theory and practice of accounting in the merchandising business firm. Corporation, partnership, and individual proprietorship accounting. 4 units. First semester. *MWF, 8;* laboratory, *Th* or *F, 1:15-3:05.*

72. Elementary Cost Accounting. *Mr. Rostvold.* The theory and method of accounting in the manufacturing business unit. Emphasis on job-order, process, and standard cost systems. Prerequisite: Economics 71 or equivalent. 4 units. Second semester. *MWF, 8;* laboratory, *Th* or *F, 1:15-3:05.*

ADVANCED COURSES

Economics 51 and 52 or equivalent are prerequisites for all advanced courses in Economics.

103. Money and Banking. *Mr. Bond.* Principles of money, credit, and banking; the relation of money, income, and prices; and the problems of monetary management and fiscal policy. 3 units. First semester. *TThS, 9, 10.*

104. Economic Theory and Business Policy. *Mr. Child.* A study of economic organization, markets and prices, resource use and income division in markets containing various mixtures of competition and monopoly. 3 units. First semester. *MWF, 10, 11.*

106. Economics of Consumption. *Staff.* A study of consumer behavior and an analysis of factors behind demand; includes such subjects as mathematics of finance, insurance and investments. 3 units. First semester. *MWF, 10.*

107. Development of the American Economy. *Mr. Perry.* A survey of the economic history of the United States. Emphasis is placed on such distinctive factors as resources, technological developments, and the cultural milieu. 3 units. First semester. (Omitted in 1956-57.) *MWF, 10.*

109. National Income. *Mr. Rostvold.* A study of national income concepts and their measurement, the determinants of the level of national income and employment, and the general features and causes of fluctuations in economic activity. 3 units. Second semester. *TThS, 9.*

110. Industrial Organization and Public Policy. *Mr. Bond.* The role of competition in a free society; public policies designed to maintain competition, alter its character, or regulate monopoly, in light of the economic characteristics and business practices of modern industry; a study in economics and law. 3 units. Second semester. *MWF, 10.*

111. Labor Economics. *Staff.* A brief history of organized labor is fol lowed by an analysis of wage policies, labor productivity, collective bargain ing, minimum wage legislation, labor monopoly and current labor legislation 3 units. Second semester. *MWF, 9.*

120. Public Utility Economics. *Mr. Rostvold.* An historical and analytica study of public utility problems in the United States, with emphasis on th economics of overhead costs, and the economic and legal problems of regula tion. 3 units. First semester. (Omitted in 1956-57.) *MWF, 10.*

154. International Economics I. *Mr. Child.* An analysis of trade and mon etary relationships in the international economy. 3 units. First semester. *TThS 9.*

155. International Economics II. *Mr. Child.* An analysis of contemporary international economic problems and policies. Prerequisite: Economics 154 or permission of the instructor. 3 units. Second semester. *TThS, 9.*

189. Public Finance. *Mr. Rostvold.* An analysis and evaluation of the effect of current governmental taxing, spending, borrowing, and debt managemen policies on the American economy. 3 units. First semester. *MWF, 9.*

190. History of Economic Thought. *Staff.* A survey of the develop ment of economic science and policy from the forerunners of the classica school to the present date. 3 units. Second semester. *MWF, 10.*

191. Monetary Theory and Policy. *Mr. Cook.* The interrelationships o money, income, and prices, with emphasis on the theory of output as a whol and policies designed to maintain high level employment without inflation Prerequisites: Economics 103, 104, and 109, or equivalent. 3 units. Secon semester. *TThS, 10.*

195. Comparative Economic Systems. *Mr. Cook.* A comparison of alternativ forms of economic organizations, with major emphasis on the economic system of the United States and the Soviet Union. 3 units. First semester. *TThS, 10*

198. Introduction to Research. *Staff.* Supervised advanced study in selecte fields of economics. Open to qualified seniors with the permission of instructo 3 units. First semester. *MWF, 11.*

199. Readings in Economics. *Mr. Bond.* Senior seminar for economics majors Reading and discussion of leading books and current problems. 3 units Second semester. *MWF, 11.*

Available at Claremont Men's College

Courses in tax accounting, foreign trade, corporation finance and personne administration are available at Claremont Men's College. Students who hav completed the prerequisites, Economics 51 and 52, may enter these course with the permission of their advisers.

AVAILABLE AT CLAREMONT GRADUATE SCHOOL

Open to qualified seniors with the permission of the chairman of the department and the instructor of the graduate seminar. For other graduate courses, consult the catalog of The Claremont Graduate School.

206. Monetary Theory and Policy. *Mr. Cook.* 4 units. Second semester. *TThS, 10 a.m.*

Education

All students considering teaching as a career should study the section on "Public School Teaching and Administration" on page 74.

Requirements for concentration: 27 units of work in courses numbered over 100, as prescribed below.

Prerequisites: Psychology 51a-b; Economics 51; Government 52; Sociology 1. Junior standing is prerequisite to all courses in education except Education 101, which is open to sophomores. Students planning to major in education should take Education 101 during their sophomore year.

Required courses: Education 101, 104, 105, 151, 190; Sociology 106 or 109 or 112; Psychology 107 and 108; Government 103. The program should include further work in psychology and sociology, and special attention should be given to those subject fields for which an elementary school teacher is responsible, such as art, English, geography, history, life sciences, music, physical education, and speech. Students anticipating teaching in Southern California are urged to acquire some familiarity with the Spanish language.

101. Principles of Education. *Mr. Lee, Mr. Sanders.* An overview of the basic patterns, practices, and trends in contemporary American education, with consideration of major educational problems. This course meets the "principles of education" requirement, or can be accredited as an elective in professional education, for either the elementary or the secondary credential in California. Open to sophomores who are working toward a credential. 3 units. Each semester. *MWF, 9.*

104. History of Education: European and Comparative. *Mr. Lee.* The European roots of contemporary American educational traditions and practices. Contemporary educational policies and practices in foreign countries. This course is accredited as an elective in professional education towards either the elementary or the secondary credential in California. 3 units. First semester. *MWF, 11.*

105. History of Education: United States. *Mr. Lee.* A study of the growth and evolution of education in the United States, including the intellectual, social, and economic forces which have shaped educational developments. This course is accredited as an elective in professional education towards either the elementary or the secondary credential in California. 3 units. Second semester. *MWF, 11.*

151. Introduction to the Philosophy of Education. *Mr. Lee.* A study o the major contemporary philosophical approaches to American educatior This course is accredited as an elective in professional education toward either the elementary or the secondary credential in California. 3 units. Firs semester. *TThS, 10.*

185. Higher Education in America. *Mr. Lee.* A study of the histor philosophical currents, and major issues in American higher education. Thi course meets the requirement of a course dealing with the junior college fo the junior college credential or can be accredited as an elective in professiona education for the elementary or the secondary credential in California. units. Second semester. *TTh, 1:15-2:30.*

190. Comprehensive Seminar in Education. *Mr. Lee.* A seminar for senior concentrating in education, open to others with the instructor's permissior Selected educational problems will be considered through independent re search, observation, and discussion. This course meets one-half of the re quirement in "curriculum and methods" for the elementary credential i California. 3 units. Second semester. *Th, 3:15* and arranged.

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A wide range of graduate work in education, leading to various credentials as well as to the degree of Master of Arts, is offered at the Claremon Graduate School.

English

English 1 or its equivalent is prerequisite for all other departmental course English 50 and History 1 are required of all students intending to concentrat in the Department of English.

A reading knowledge of at least one language and literature other tha English, as well as high school preparation in Latin, is strongly recommende In most graduate schools, candidates for the degree of Doctor of Philosoph are required to have a reading knowledge of *two* foreign languages.

Electives should be chosen, in consultation with the adviser, from cours in Speech and Dramatics, foreign literature, the history of England, th history of philosophy, and (especially for students interested in writing elementary applied art.

Transfer students may offer equivalent courses pursued at other colleges i fulfillment of these requirements and recommendations.

concentration with emphasis on literature

Students who are concentrating in literature must choose from each of th four groups below at least the number of units specified. English 115 mu be taken in the first semester of the Junior year.

Group I (6 units): English 153 *or* 154 *or* 155 *or* 156.

Group II (9 units): English 101 *or* 102 *or* 103 *or* 104.

Group III (6 units): English 105 *or* 160 *or* 162 *or* 163.

Group IV (6 units): English 115 *and* 195.

CONCENTRATION WITH EMPHASIS ON WRITING

The following pattern of courses must be completed, for a total of at least 7 units, by students concentrating in writing.

1. Upper-division courses in composition (111, 151; Speech and Dramatics 12): 6 to 12 units, of which 3 units must be in English 111. Note that certain courses in composition may be repeated for credit under proper conditions.
2. English 153 *or* 154 *or* 155 *or* 156: 6 units.
3. English 101 *or* 102 *or* 103 *or* 104 *or* 105: 9 units.
4. English 162 *and* 163: 6 units.

A brief reading list, designed to acquaint students with the major figures in literature, will supplement course assignments in the programs of concentration. The books on this list, many of which will already have been read in course, will be included in the comprehensive examination.

CONCENTRATION IN LITERATURE AND PHILOSOPHY: See Philosophy.

1, 1b. ENGLISH: AN INTRODUCTORY COURSE. *Staff.* The fundamentals of composition and practice in writing. Reading and study of a few important literary types. Students with marked deficiencies in the use of English may be required to meet for a fourth hour (arranged). 3 units. Section meetings *MWF, 8, 9; TThS, 8, 9.* Section of 1b first semester for specially qualified students, *TThS, 9.*

50a, 50b. GREAT AUTHORS. *Staff.* An historical and critical study of several great writers, the major periods, and the dominant forms of literature in English. No student will be admitted to the second semester of the course who has not completed English 50a or an equivalent. 3 units. *MWF, 11; TThS, 10.*

. INTRODUCTION TO POETRY. *Mr. Holmes.* A study of the principal aims and techniques of poetry. Readings in a wide variety of poetic types. 3 units. Second semester. *TThS, 9.*

. INTRODUCTION TO DRAMA. *Mr. Davis.* Great plays of various periods from the classic Greek to the present day; as extensive reading as time will permit. 3 units. First semester. *TThS, 9.*

. INTRODUCTION TO PROSE FICTION. *Mr. R. Davis.* A survey of important works in prose fiction with emphasis upon selected novels—English, American, and continental—from the eighteenth century to the present. 3 units. Second semester: *TThS, 9.*

NEWS WRITING. *Mr. Overaker.* The writing and presentation of news with special emphasis on daily newspaper practices. Enrollment limited to 25 students. 3 units. First semester. *TTh, 8,* and third hour arranged.

EXPOSITORY WRITING. *Staff.* Practice in expository writing, especially for the student who is planning a career in business or one of the professions, such as law, medicine, or scientific research. Enrollment limited to 25 students. 3 units. First semester: *MWF, 11.* Second semester: *T, 1:15-3:05,* and *Th, 1:15.*

64. Narrative and Descriptive Writing. *Mr. Mulhauser, Mr. Weismille* A course for students who, having shown some ability as writers in English or its equivalent, wish to continue with the basic creative problems of narr tion and description. This course is a prerequisite for English 111 and 15 Enrollment limited to 25 students each semester. In exceptional circumstance the course may be repeated for credit by permission of the instructor. 3 unit Each semester: *TThS, 9.*

ADVANCED COURSES

101a, 101b. The Renaissance in England. *Mr. Strathmann.* Non-dramat literature of the English Renaissance: the works of Spenser, his contemp raries, and writers of the first half of the seventeenth century. 3 units. *MWF,*

102. The Age of Swift and Pope. *Mr. Bracher.* A survey of the literature the Restoration and early eighteenth century. Main topics: Restoration dram and neo-classic literature. 3 units. Second semester. *MWF, 2:15.* (Alternat with 103.)

103. The Age of Johnson. *Mr. Bracher.* A survey of the literature of th later eighteenth century. Main topics: the beginning of the novel, pre-romant poetry, Dr. Johnson and his circle. 3 units. Second semester. *MWF, 2:1* (Offered in alternate years; not offered in 1956-57.)

104a, 104b. Literature of the Nineteenth Century. *Mr. Chew, Staf* An intensive study of the major poets and prose-writers of the Romant period (first semester) and the Victorian period (second semester). 3 unit *TThS, 9.*

105a, 105b. American Literature. *Mr. Holmes.* An intensive study the great American writers of the nineteenth century. First semester: Edwar to Hawthorne. Second semester: Melville to E. A. Robinson. 3 units. *TThS, 1*

111. The Short Story. *Mr. Frazer.* Practice in the writing of short stori and sketches. (A student who has completed both English 111 and Englis 151 may repeat one of these courses for credit.) Enrollment limited 25 students. Prerequisite: English 64 and permission of the instructor. 3 unit First semester. *T, 1:15-3:05,* and *Th, 1:15.*

115. Literary Criticism. *Staff.* Reading of important documents literary criticism; application of critical principles and techniques to selecte literary works. 3 units. First semester. *W, 2:15-4:05; F, 2:15.*

151. Creative Writing. *Mr. Weismiller.* Supervised practice in the form of creative writing, selected according to the needs and abilities of the student (A student who has completed both English 111 and English 151 may repe one of these courses for credit.) Enrollment limited to 25 students. Prerequisite English 64, and English 111 or permission of the instructor. 3 units. Secon semester. *T, 1:15-3:05,* and *Th, 1:15.*

53. Chaucer. *Mr. Davis.* A study of Chaucer as the outstanding narrative nd dramatic poet of the transition from the medieval to the modern world. units. Second semester. *MWF, 10.* (Alternates with 156; not offered in 956-57.)

54. The English Language. *Mr. Bracher.* A survey of the English language om its origins to the present. Especially recommended to prospective teachers. units. First semester. *MWF, 8.*

55a, 155b. Shakespeare. *Mr. Strathmann.* A study of the principal plays and Shakespeare's career as a dramatist. First semester, mainly comedies and stories; second semester, mainly tragedies. 3 units. *MWF, 11.*

56. Milton. *Mr. Weismiller.* A study of the poems and selected prose orks, emphasizing the literary and intellectual background of Milton's work. units. First semester. *MWF, 9.* (Alternates with 153.)

60a, 160b. The English Novel. *Mr. Frazer.* A study of the works of ajor British novelists, with emphasis upon Dickens, George Eliot, and Con- d. (Not open to students who have taken English 58.) 3 units. *MWF, 10.*

62. Contemporary Novelists. *Mr. Mulhauser.* The novels of James, awrence, Joyce, Woolf, Hemingway and Faulkner, with emphasis upon their inciples of narrative art and philosophical points of view. 3 units. First mester. *MWF, 10.*

63. Contemporary Poets. *Mr. Weismiller.* Poets of the twentieth century, erard Manley Hopkins to the present, studied in the light of the great etic tradition. 3 units. Second semester. *MWF, 10.*

65. Readings in English Literature. *Staff.* A seminar open to seniors ncentrating in English. Lectures, readings, and reports directed toward a thesis, on the student's part, of his work in English. 3 units. Second mester. Two sections: *T, 3:15; Th, 2:15-4:05.*

66. Problems of Writing. *Mr. Weismiller.* A specialized course in ad- nced composition; group and individual conferences. Prerequisites: English , 111 and 151 and permission of instructor. 1 or 2 units. Second semester, e hour a week. Arranged.

67. Directed Reading. *Departmental Staff.* Seniors concentrating in English y enroll for individually planned reading programs, usually supplementary advanced courses. Prerequisites: a grade point average in English of 3.4 better; permission of the instructor and the departmental chairman. Enroll- nt may be repeated. 3 units. Each semester. Arranged.

Character Presentation in Dramatic Literature. For description see eech and Dramatics 61a, 61b.

Playwriting. For description see Speech and Dramatics 112a-112b.

AVAILABLE AT SCRIPPS COLLEGE

Some Scripps courses (starred) duplicate courses at Pomona. Credit will allowed for either the Scripps or the Pomona course, but not both.

*I-113. Contemporary Fiction. *Mr. Gray.* Second semester. *MWF, 10.*

*I-116a, b. Shakespeare. *Mr. Gray.* (First semester, Tragedy; second semes Comedy.) *T, 4:05-5:50, Th, 4:05-4:50.*

I-117. Restoration and Early Eighteenth Century English Literatu *Mr. Fogle.* Second semester. *MW, 3:15-4:30.*

I-136. Seventeenth Century English Literature. *Mr. Fogle.* First semest *MW, 3:15-4:30.*

I-143. Chaucer. *Mr. Armour.* First semester. *TThS, 10.*

*I-144. The Romantic Poets. *Mr. Armour.* Year course. *MWF, 8.*

I-148. Contemporary Drama. *Mr. Gray.* First semester. *MWF, 10.*

I-159. The Midwest in American Literature. *Mr. Foster.* First semest *MWF, 11.*

I-161. The South in American Literature. *Mr. Foster.* Second semest *MWF, 11.*

Geology

Geology 1 and 2 make up an introductory survey course, designed for t non-technical student. This course is also a prerequisite for all the mo advanced work in the department, except Geology 59. The other cour are designed for persons intending to specialize in geology or a relat science.

A student concentrating in geology should include courses 1, 2, 59, 1 107, 110, 112, 151, 181, 182, and an approved summer field course. Requir in other departments: Mathematics 1, 65; Physics 51; Chemistry 1, and reading knowledge of German, French or Spanish (German or Fren preferred). Physics 52 and Pre-Engineering 7 and 40 are desirable. In exce tional cases courses in biology may be substituted for those in physics mathematics. Rarely the requirement of a summer field course is waive

1a-1b. Introduction to Geology. *Mr. McIntyre.* A survey of geolo principles and processes, and of earth history. Must be accompanied by Ge ogy 2. (Special permission may be granted for the waiving of this requireme in the case of science majors during their senior year.) 3 units. *MWF,*

-2b. Laboratory and Field Trips Supplementing Geology 1a-1b. *Staff.* pen to students who are taking or have taken Geology 1 or its equivalent. :e $3.00 each semester. 1 unit. *M, W* or *Th, 1:15-4:05.*

1. Mineralogy, Including Crystallography. *Mr. McIntyre.* Prerequisite: Chemistry 1 completed or in progress. Two class and two laboratory riods. Laboratory fee $4.00. 4 units. First semester. Class *WF, 11,* laboratory *and F, 1:15-4:05.*

2. Elementary Field Geology. *Mr. Oertel and Mr. Shelton.* Field ethods; geologic mapping; spring recess trip; writing of geologic reports. erequisites: Geology 110, completed or in progress, and Geology 112. cond semester. 3 units. Arranged.

4. Field Geology. *The Staff.* A summer field course in geologic mapping. erequisite: Geology 102 and 110. 6 units.

7a, 107b. Paleontology, and Stratigraphy. *Mr. McIntyre and Mr. Shelton.* Prerequisite: Geology 1 and 2. Two class and one laboratory periods first nester; one class and two laboratory periods second semester. Laboratory : $6.00 each semester. 3 units. Class *TTh, 9;* laboratory, arranged.

0. Introduction to Petrology. *Mr. McIntyre.* Prerequisite: Geology 1, nd 59. Laboratory fee $4.00 Two class and two laboratory periods. 4 units. cond semester. *WF, 11;* laboratory *T* and *F, 1:15-4:05.*

2. Structural Geology. *Mr. Oertel.* Structural features of sedimentary, neous and metamorphic rocks; deformation of the earth's crust; practice laboratory methods dealing with geological problems in three dimensions. erequisite: Geology 1, 2. Laboratory fee $4.00. Two class and one laboratory riods. 3 units. First semester. *TTh, 10;* laboratory, arranged.

1a-151b. Optical Mineralogy and Petrography. *Mr. Shelton.* The tical properties of crystals; study of minerals and rocks with the petroaphic microscope. Two class and one laboratory periods first semester e class and two laboratory periods second semester. Prerequisite: Geology 0. Laboratory fee $5.00 first semester; $8.00 second semester. 3 units. ranged. (Omitted in 1956-57.)

, 182. Geological Investigation and Research. *Staff.* Laboratory fee $4.00 h semester. 3 units. Arranged.

AVAILABLE AT CLAREMONT GRADUATE SCHOOL

en to qualified undergraduate students who have obtained the consent of instructor in charge.

. Advanced Petrology. *Mr. McIntyre.*

3. Regional Geology. *Staff.*

5. Seminar in Physical Geology. *Staff.*

German

A program of concentration in German consists of a minimum of 18 units courses numbered above 100 and 6 additional units in German or in a relat field selected according to the student's needs and interests. Special prograr for students interested in German Literature, translation, library work, or pc graduate work in German can be had from the department.

1a-1b. Elementary German. *Miss Wagner.* The acquirement of a sm working vocabulary. Constant ear-training, and as much practice in speakir as time permits. Daily exercises in reading and writing. The essentials grammar. 3 units. *MWF, 9, 11; TThS, 10.*

53a-53b. Advanced German. *Mr. Baumann.* Intensive reading of selecte German works, with collateral reading in the field of the student's individu interest. Continued practice in German conversation. Prerequisite: Germ 1 or an equivalent. 3 units. *MWF, 9; TThS, 9.*

102a, 102b. Advanced Conversation, Readings and Translation. *M Wagner.* Intensive critical readings of masterpieces of the eighteenth ar nineteenth centuries. Drill in written and oral expression. Prerequisit German 53 or equivalent. 3 units. *MWF, 9.* (Omitted in 1956-57.)

109a, 109b. German Literature of the Nineteenth Century. *M Wagner.* With special reference to the cultural, economic and political histo of Germany. Discussion and papers. Prerequisite: German 53 or equivaler 3 units. *TThS, 9.*

113a, 113b. German Classics of the Eighteenth Century. *Miss Wagn* A study of the outstanding works and personalities of the period. Prerequisit German 53 or equivalent. 3 units. *TThS, 9.* (Omitted in 1956-57.)

158a, 158b. Modern German Literature. *Mr. Baumann.* The developme of German Literature from 1880 to the present with reference to the politic and social changes during that period. 3 units. *MWF, 11.* (Omitted in 1956-57

160a, 160b. Survey of German Literature. *Mr. Baumann.* The develo ment of German Literature from earliest times to the present. 3 unit *MWF, 11.*

Government

General Requirement: Government 51 and 52 are desirable prerequisites f advanced courses, but the Department invites Juniors and Seniors with averages to confer with staff members regarding enrollment in any cour desired.

Lower Division Prerequisites for Concentration: The following courses ıould be completed by the end of Sophomore year: History 1; Government 1, 52; Economics 51, 52. The introductory course in Sociology is strongly ecommended and also the elementary course in statistics and a semester of ccounting.

Program of Concentration: A minimum of 24 upper division units in overnment, including in each case Government 104, 125, 154, 157, 182, 183, ıd 6 upper division units from one of these fields: Economics, History, ɔciology. These combinations are especially recommended: Economics 103 ıd 189 or 104 and 110; History 107a, b or 113a, b; Sociology: any two the following: 108, 112, 152 or 153. Each student's program shall be ranged in consultation with the departmental staff. A reading and speaking nowledge of at least one modern foreign language is strongly advised, rticularly for students having any intention whatever of seeking positions foreign service or foreign trade or of engaging in graduate study.

Three Year M.A. Program: Proximity and cooperation between Pomona ollege and the Claremont Graduate School make it possible for students so terested to plan, beginning with their junior year, a three-year program ıabling them to earn both the B.A. and M.A. degrees. Any student interested pursuing such a program is invited to confer with the Department.

AMERICAN ECONOMIC AND POLITICAL INSTITUTIONS

Pomona College believes that its graduates should be familiar with the eco-ɔmic and political foundations of American life. To this end the Departments Economics and Government have organized a year course in American onomic and political institutions through which students who cannot take full year in each subject may nevertheless gain some understanding of both lds. This course combines a semester's study of economics with another mester devoted to American Government and the formal classwork is sup-emented by a series of special lectures which all students are expected to end. These lectures (which are open to other students and faculty as well) e designed to present the insights of persons who have had practical experi-ce in business and government and the speakers are chosen from leaders in vernment, industry, finance, labor and law.

That part of the course pertaining to economic institutions (Economics 51) offered only during the fall term and that pertaining to politics (Government) only in the spring but students may begin the course at whichever time best ts their schedules. The combined course may be offered in fulfillment of one the requirements for distribution in the lower division. For outline of ntents and time schedule see regular course descriptions under the respective partments.

Fundamentals of Politics. *Staff.* Political theory, institutions and be-vior as revealed in the enduring issues of politics. First semester. 3 units. *WF, 8, 10; TThS, 8, 9, 10.*

52. American Government. *Staff.* Analysis of the American system of co stitutional government, mainly on the national level, and of the position of t U. S. in world politics. May be combined with Economics 51 to enable studer who cannot devote more than six hours to the two fields to do some ba work in each. 3 units. Second semester. *MWF, 8, 10, 11; TThS, 8, 9, 10.*

103. State and Local Problems. *Mr. Musolf.* Trends and problems on levels of California government including their inter-relationships. Empha on public education, municipal management, natural and human resourc 3 units. First semester. *TTh, 1:15-2:30.*

104. Principles of Administration. *Mr. Musolf.* Forms and modes of pub administration: budgeting, personnel management, public relations, perfor ance measurement, comparisons with business practices. 3 units. Seco semester. *MWF, 10.*

105. Introduction to Law. *Mr. Musolf.* Nature of law, development Anglo-American legal institutions, theories of jurisprudence. 3 units. Seco semester. *TThS, 9.*

109. Fundamentals of International Relations. *Mr. Olson.* Basic fact of power; the balancing process; comparative foreign-policy making; proaches to world order. 3 units. Second semester. *TThS, 9.*

112. Political and Economic Geography. *Mr. Calderwood.* Resourc location and other environmental influences upon trade, diplomacy and m tary strategy. 3 units. First semester. *TTh, 1:15-2:30.* (Not given 1956-57.)

125. Modern Democracies. *Mr. Vieg.* Comparative analysis of political for and governmental institutions in various democratic countries, notably Brita France and Germany. 3 units. First semester. *MWF, 9.*

126. Modern Totalitarianism: U. S. S. R. *Mr. Olson.* Theory and pract of recent dictatorships with emphasis on Soviet regime since 1917. (May combined with History 114 to comprise a year's work in the History of R sia.) 3 units. Second semester. *MWF, 9.*

154. Constitutional Law. *Mr. Musolf.* Nature and extent of constitutio power; separation of powers doctrine; federal-state relations; powers of Congr and Presidency; citizenship and suffrage; guarantees of individual rights units. First semester. *TThS, 9.*

157. Parties and Pressure Groups. *Mr. McDonald.* Role of parties, press groups, voters and politicians in the American political process. 3 units. F semester. *MWF, 10.*

159. The Electoral Process. *Mr. Vieg.* Theoretical analysis of elect problems combined with field work in practical politics. Primarily for maj but open to others with permission of instructor. 3 units. First semes Arranged.

60. The Administrative Process. *Mr. Vieg.* Pro-seminar on administrative ieory combined with field work in public administration. Individual projects id reports. Primarily for majors but open to others with permission of in-ructor. 3 units. Second semester. Arranged.

61, 162. Readings and Research in Government. *Staff.* Open to students pable of independent study. Individual programs must be approved in lvance. 2 or 3 units. Arranged.

65. Foreign Policies of the United States. *Mr. Olson.* American diplo-atic history; powers of President and Congress on control of foreign relations; amination of contemporary policies. 3 units. First semester. *TThS, 10.*

69. Seminar in International Relations. *Mr. Olson.* Integration of histor-il, economic and political aspects of the field, with emphasis upon theory. pen to non-concentrators by permission. 3 units. Second semester. *T, 7:30-p.m.*

0. Social Institutions and Social Theory. *Staff.* Representative theories out contemporary social institutions drawn from the several social sciences. minar primarily for senior concentrators in Modern Social Institutions. 3 its. Second semester. Arranged.

2. Political Theory: Normative. *Mr. McDonald.* Examination of funda-ntal values posited by the great political thinkers: justice, law, duty, rights, operty, welfare. 3 units. First semester. *MWF, 11.*

3. Political Theory: Causal. *Mr. McDonald.* Theories concerning political navior and the governmental process: power, equilibrium, group, authority. plication of these theories to senior theses in government. 3 units. Second nester. *MWF, 11.*

Honors Study

idents of marked capacity are invited to arrange with the Department for rollment in programs of independent study culminating in the presentation a dissertation on some subject of special interest and significance. One half the minimum requirement of 12 units may be met by Government 182 d 183 which together constitute the Senior seminar.

atistics For Social Scientists. For description see Economics 57.

ementary Accounting. For description see Economics 71.

available at claremont men's college

ministrative Organization in Business and Government. *Mr. Benson.* nits. Second semester.

siness Law. *Mr. Fick.* 3 units. Each semester.

available at claremont graduate school

Open to qualified seniors with the consent of the instructor.

. History of Political Theory. *Mr. Vieg.* First semester.

231. Politics and Legislation. *Mr. Vieg.* Second semester.

251. International Politics: Theory. *Mr. Olson.* 4 units. First semester.

THE WASHINGTON SEMESTER

Pomona is one among a number of colleges which have been invited b The American University to participate in its Washington Semester prograi whereby a limited group of undergraduate students are afforded an oppo tunity for special study of the governmental process in the national capita The College has been allotted a quota of four students annually, the choic among applicants being made by a Faculty Selection Committee. Preference given to juniors. Under a cooperative agreement tuition is paid in th regular manner to Pomona College while charges for board and room ar paid in Washington, D. C. Candidates selected defray their own costs fc travel and other expenses. Students interested in the program are invited t consult with the chairman of the Department of Government who serves a local representative.

History

General requirement: History 1, or its equivalent, is a prerequisite for all othe courses in History. Except for History 1, either semester of year courses ma be taken separately without special permission of the instructor. Qualifie Sophomores may elect courses in the 100-150 range with the approval of th instructor.

Concentration requirements: Students planning to concentrate in History ar required to take History 1, 55, 140, and 190 as well as a pro-seminar i History. They should also take Government 51 and 52 and Economics 51 an 52 during the Freshman and Sophomore years. During Junior and Senic years in addition to History 140, 190, and a pro-seminar, they must take a least 12 units of upper division courses in History, and at least 6 units c upper division courses in a related field such as Economics, Governmen Literature, Philosophy, Religion, or Sociology. A knowledge of foreig languages is of great value to students in History, and all concentrators ar urged to gain as much proficiency as possible in this direction. Students wh have in mind advanced work in History should remember that most graduat schools require a reading knowledge of one foreign language for the M.A. an of two for the Ph.D. The courses taken in a program of concentration i History should be carefully selected, and the program as a whole should b planned in consultation with a member of the History Department. All con centrators in History will write three examinations of a comprehensiv nature near the end of Senior year. One of these will be the same for al concentrators in History and will deal with the subject as a whole, its poin of view and its method. In addition, each concentrator will select two fron the following list of fields in which to be examined: Ancient History, Europ 312-1648; Europe since 1648; the United States; Latin America; and the Fa

East. The examinations are not designed with the expectation that students will have taken all courses offered by the Department in one or another field in order to pass that examination. Since the fields are broad, an equal degree of familiarity with all aspects is not required. It is the view of the Department that judiciously planned independent reading may well supplement or replace courses in preparation for part of the examinations.

The Department encourages qualified students to undertake programs of Honors Study. Information respecting such programs may be obtained from the Departmental Staff.

OINT CONCENTRATION: PHILOSOPHY AND HISTORY.
See Philosophy.

a-1b. HISTORY OF WESTERN CIVILIZATION. *Staff.* A survey of political, religious, intellectual, and economic developments in Europe and their expanding influence. First semester: Ancient Greece to the end of the Middle Ages; second semester: Renaissance to the present. 3 units. *MWF, 8, 9, 10; TThS, 9.*

. ASIA AND EUROPE. *Mr. Ch'en.* A survey of Eastern contacts with and contributions to Western Civilization with emphasis upon the interdependence of cultures. May be taken concurrently with History 1a-b. 2 units. *M, 7:30-9:30.*

3. CURRENT HISTORY. *Mr. Herring.* Analysis of contemporary national and international issues, based upon reading of representative newspapers and magazines. Fee of $4.00 from each student to pay for material used. First semester. May be repeated for credit. 1 unit. *Th, 1:15.*

5a, 55b. HISTORY OF THE UNITED STATES. *Mr. Adair.* The political, economic, and cultural development of the United States. First semester: 1607 to 1850; second semester: 1850 to the present. 3 units. *MWF, 11.*

01. HISTORY OF GREECE. *Mr. Carroll.* A survey from the prehistoric age until the Roman conquest with special emphasis on the city-state and democracy. 3 units. Second semester. *MWF, 9.* (Offered in alternate years; given in 1956-57.)

02. HISTORY OF ROME. *Mr. Carroll.* The Republic and Empire from the founding of the city until the sixth century A. D. 3 units. (Offered in alternate years; omitted in 1956-57. To be given in 1957-58.)

03a, 103b. HISTORY OF THE MIDDLE AGES. *Mr. Learnihan.* A study of political, economic, intellectual, and religious developments and institutions during the transition from Mediterranean to European civilization. First semester: 312-1054; second semester: 1054-1300. 3 units. *TThS, 9.* (Offered in alternate years; omitted in 1956-57. To be given in 1958-59.)

07a, 107b. HISTORY OF ENGLAND. *Mr. Gleason.* The religious, intellectual, and economic, as well as the political, evolution of Great Britain and the Empire. First semester: to 1688; second semester: 1688 to the present. 3 units. *MWF, 11.*

108. History of the Renaissance and Reformation. *Mr. Learnihan.* A study of the transition from Medieval to Modern civilization in Europe between 1300 and 1648. 3 units. Second semester. *MWF, 9.* (Offered in alternate years; given in 1956-57.)

109. Absolutism and Enlightenment in Europe. *Mr. Smith.* An analysis of the social, economic, political, and cultural developments in Europe from 1648 to 1789 with France as a focal point. 3 units. (Offered in alternate years; omitted in 1956-57. To be given in 1957-58.)

110. French Revolution and European Reaction. *Mr. Smith.* Europe from 1789 to 1848 with special emphasis on the impact of France, and the role of the French Revolution in shaping contemporary civilization. 3 units. (Offered in alternate years; omitted in 1956-57. To be given in 1957-58.)

113a, 113b. Europe Since 1848. *Mr. Meyer.* A study of political, economic, social, and intellectual developments with reference both to their intrinsic significance and to an understanding of contemporary Europe. 3 units. *MWF, 10.*

114. History of Russia. *Mr. Smith.* Internal developments to 1917 together with a consideration of Russia's historical relationships with Baltic, Balkan, and Polish neighbors. This course may be followed by Government 126 to constitute a year's work in Russian history. 3 units. (Offered in alternate years; omitted in 1956-57. To be given in 1957-58.)

117a, 117b. Intellectual History of Europe. *Mr. Learnihan.* A study of the formation of ideas and ideals significant in politics, religion and science from classical times to the present. 3 units. *TThS, 9.* (Offered in alternate years; given in 1956-57.)

118. Modern Economic History. *Mrs. Davies.* Problems of economic development from the age of mercantilism to the present, with special reference to western Europe. 3 units. First semester. *MWF, 9.*

123a, 123b. History of Latin America. *Mr. Herring.* The Indian and colonial backgrounds; the development of the twenty independent republics to the present day. 3 units. *W, 7:30-9:45 p.m.*

128b. Inter-American Relations. *Mr. Herring.* Diplomatic, cultural, and economic relations between the United States and Latin America from 1895 to the present. 3 units. Second semester. *Th, 7:30-9:45 p.m.*

130. Modern Maritime and Naval History. *Mr. Kemble.* A study of the development of sea power and oceanic commerce from the 15th century to the present. 3 units. (Offered in alternate years; omitted in 1956-57. To be given in 1957-58.)

134. The History of Spain. *Mr. Herring.* The history of the Iberian Peninsula, from ancient times to the present. Designed as introduction to Latin American history. First semester. 3 units. *Th, 7:30-9:45 p.m.* (Offered in alternate years; given in 1956-57.)

35. The Colonial Period of Latin America. *Mr. Herring.* The Spanish nd Portuguese Conquest, colonial government, social and economic institu- ions, the Church. Second semester. 3 units. (Omitted in 1956-57.)

42. Colonial America, 1607-1763. *Mr. Adair.* The political, economic, and ntellectual history of the Thirteen British Colonies in North America. 3 units. Omitted in 1956-57.)

43. The American Nation, 1763-1815. *Mr. Adair.* A study of the achieve- ient of independence by the United States and the establishment of the epublic. 3 units. (Omitted in 1956-57.)

45. History of the Pacific Coast. *Mr. Kemble.* The exploration and settle- ient of the region and its political, economic, and social development to the resent. 3 units. (Omitted in 1956-57.)

50. Reading and Research in History. *Staff.* Individual programs reading on significant historical topics or fields. Permission of the ember of the department with whom the reading is to be done must be ob- ined prior to registration. May be repeated for credit. 2 to 4 units. Arranged.

57. Representative Historical Personalities. *Mr. Learnihan.* A study of e parts played by a group of significant individuals in the unfolding of Western Civilization and their impact on historical change. 3 units. (Omitted 1956-57.)

55. Representative Societies. *Mr. Gleason.* 5th century Athens, 13th ntury France, 16th century England, 19th century New England. A course r Seniors designed to integrate the total program. 3 units. (Omitted in 1956- .)

or courses in Far Eastern History see those listed under Oriental Affairs.

The following courses are designed primarily for concentrators in History. her students may be admitted with the permission of the instructor. It is ended to offer one pro-seminar in European and one in American History ch year, but the subject studied will vary from time to time. Arrangements ay be made for work of this type in Far Eastern and Latin American istory at the Claremont Graduate School.

0. The Study of History. *Mr. Learnihan.* An introduction to the methods, hniques, schools, and philosophies of history. 3 units. Both semesters. *TTh, 5-3:45.*

0. Pro-Seminar in European History. *Mr. Meyer.* The subject for 1956-57 l be European Fascism, 1918-1939. First semester. *MW, 2:15* and arranged.

0. Pro-Seminar in American History. *Mr. Adair. MW, 2:15* and arranged.

0. Historical Problems and Interpretation. *Staff.* Consideration of jor historical developments and some of the most significant works in ropean and American history. 3 units. Second semester. *W, 1:15-4:05.*

AVAILABLE AT SCRIPPS COLLEGE

III-118a. The Emergence of Modern America, 1865-1914. *Mr. White.* 3 units. First semester. *MWF, 11.*

III-118b. The Age of Reform, 1914 to the Present. *Mr. White.* Second semester. *MWF, 11.*

AVAILABLE AT CLAREMONT MEN'S COLLEGE

110. History and Problems of Imperialism. *Mr. Povlovich.* 3 units. First semester.

160. English Constitutional History. *Mr. Povlovich.* 3 units. Second semester.

AVAILABLE AT CLAREMONT GRADUATE SCHOOL

These offerings are designed primarily for graduate students, but are open to qualified Seniors by permission of the chairman of the department and the instructor.

201a, 201b. Europe Since 1890. *Mr. Cooke.* 4 units.

203. Modern English History. *Mr. Wilkes.* 4 units. First semester.

209. History of American Foreign Policy. *Mr. Cooke.* 4 units. First semester.

224a, 224b. American History. *Mr. Adair.* 4 units.

236. Historical Literature in the United States. *Mr. Adair.* 4 units. First semester.

241. Historiography. *Mr. Meyer.* 4 units. Second semester.

International Relations

The field of international relations endeavors to integrate the knowledge and methodology of the traditional social science disciplines for the purpose of dealing with problems arising out of the contacts of nations in contemporary world society. The concentration of thirty units of upper division work consists of required courses in economics, government and history and electives in these and other related fields such as sociology, Latin American Affairs, Oriental Affairs, philosophy, art and literature. At least six units must be devoted to special study of one of the following regions: Europe, Russian area, Asian area, Latin America.

By the end of his junior year the student must demonstrate at least a reading knowledge of one modern foreign language, preferably a language from the area in which he intends to specialize. Majors in this field may also be required to write a senior thesis. Specific descriptions of the courses listed below will be found under the respective departmental listings.

Prerequisites: History 1, 2 and 55; Economics 51 and 52; Government 51 and 52.

Required courses: Government 109, Fundamentals of International Relations; History 113 a or b, Europe since 1848; Economics 154, International Trade, and three other units in Economics; Government 125, Modern Democracies; Government 126, Modern Totalitarianism: U.S.S.R. or Economics 195, Comparative Economic Systems; Government 165, Foreign Policies of the United States; and Government 169, Seminar in International Relations (for senior concentrators).

Regional courses

Europe:	History 107b; 113a, b; 117b; 160;
Russian area:	History 114, Government 126; Economics 195, Russian 101a, b;
Asian area:	Oriental Affairs 103a, b; 105; 123, 124; 140; 160;
Latin America:	History 123a, b, 128a, b.

Elective courses to complete or supplement the concentration are to be selected from course offerings in the Associated Colleges in consultation with the adviser in International Relations.

Under carefully defined conditions, the concentrator in this field may devote the junior year to study abroad.

Mathematics

Requirements for concentration: The basic courses in Mathematics are either (i) Mathematics 1a, b or 52, and 65a, b; or (ii) Mathematics 50a, b. In addition to these, the following courses are required: Mathematics 118, 119, 125, 131a, b, and at least three more upper division units in the Department of Mathematics. An additional six units must be taken in upper division mathematics or selected from among Physics 113a, b, 191a, b, and Astronomy 116a, b.

Mathematics 1a, b is normally prerequisite for all other work in the Department. However, students who have had trigonometry in high school may take an examination in mathematics on the Saturday preceding registration, and those who make a sufficiently high grade will be permitted to enroll in Mathematics 50a if they so desire.

1b. Introduction to College Mathematics. *Staff.* While this course prepares students for work in the calculus, it is at the same time comprehensive enough to provide in itself a general mathematical background. It includes college algebra, trigonometry, and an introduction to analytic geometry and calculus. 3 units. *MWF, 9, 10, 11; TThS, 9, 10.*

50a, 50b. Analytic Geometry and Calculus. *Mr. Tolsted.* The standard integrated course in analytic geometry and calculus. Credit will not be given for both Mathematics 1a, b, and 50a, b. 3 units. *MWF, 11.*

65a, 65b. Differential and Integral Calculus. *Staff.* This is a standard course in the theory and applications of the calculus. Prerequisite: Mathematics 1a, b or 52. Credit will not be given for both Mathematics 65 and 50. 3 units. *MWF, 8, 9; TThS, 9.* A section of Mathematics 65b will be offered in the first semester, *MWF, 9.*

102. Introduction to Applied Mathematics. *Mr. Hamilton.* In 1956-57 the course will treat of vector analysis and applications. Prerequisite: Mathematics 65a, b. 3 units. Second semester. *MWF, 11.*

118. Higher Algebra. *Mr. Jaeger.* Permutations, combinations, probability, binomial and multinomial theorems, summation of series, and other algebraic topics. Prerequisite: Mathematics 65a or permission of the instructor. 3 units. First semester. *MWF, 8.*

119. Theory of Equations. *Mr. Jaeger.* The theory and solution of algebraic and transcendental equations; determinants and matrices. Prerequisite: Mathematics 65a or permission of the instructor. 3 units. Second semester. *MWF, 8.*

125. Intermediate Calculus. *Mr. Hamilton.* Elements of solid analytic geometry; infinite series, partial differentiation, multiple integration. Applications. Prerequisite: Mathematics 65a, b. 3 units. Second semester. *MWF, 9.*

151a, 151b. Differential Equations. *Mr. Davis.* A general course in theory and applications. Prerequisite: Mathematics 65a, b. 3 units. *TThS, 10.*

152a, 152b. Advanced Calculus. *Mr. Tolsted.* Introduction to logic; limits, sequences, continuity, improper integrals, uniform convergence, Taylor and Fourier series, partial derivatives, and multiple integrals. Prerequisite: Mathematics 125. 3 units. *TThS, 9.*

194. Mathematical Statistics. *Mr. Hamilton.* The mathematical bases of statistical theories and methods, with applications from various fields. Prerequisite: Mathematics 65a, b. 3 units. First semester. *MWF, 11.*

195a, 195b. Actuarial Mathematics. *Mr. Jaeger.* Finite differences, interpolation formulas, approximations, summations, and probability. Prerequisite: Mathematics 65a, b and 118. 3 units. *TThS, 8.*

197a, 197b. Number Theory. *Mr. Jaeger.* Properties of integers, linear and quadratic congruences, and algebraic numbers. Prerequisite: Mathematics 65a, b. 3 units. *MWF, 10.*

198a, 198b. Selected Topics in Higher Mathematics. *Mr. Jaeger, Mr. Tolsted, Mr. Davis.* Special work or reading not included in the preceding is available in this course to students of proved ability. Prerequisite: Departmental approval. 3 units. Arranged.

Mathematical Physics. For description, see Physics 191a, 191b.

PRE-ENGINEERING

A student may take from one to four units in each of the following courses. All courses numbered above 100 require instructor's approval for enrollment. Study and drawing period *M, T, W, Th,* or *F, 1:15-4 p.m.* Lecture rranged.

. Engineering Drawing. *Mr. Grimm.* A basic engineering drawing course, ıcluding lettering, projection, visualization, and working drawings.

0. Descriptive Geometry. *Mr. Grimm.* The theory and principles of rojection, including points, lines, plane sections, and development of surfaces. 'rerequisite: Two units of engineering drawing.

01. Architecture. *Mr. Grimm.* Basic work in architectural design includ- ıg the development of a complete set of working drawings.

02. Mechanisms. *Mr. Grimm.* Practice in the graphical solution of machine ıechanisms.

03. Topography. *Mr. Grimm.* Practice in topographic mapping and model onstruction.

AVAILABLE AT CLAREMONT SUMMER SESSION

0. Surveying. *Mr. Grimm.* A basic surveying course. 3 units.

Military Science

omona College, in conjunction with Claremont Men's College, maintains General Military Science Unit, Senior Division, of the Reserve Officers' 'raining Corps, established under the National Defense Act for the purpose f training students to become officers of the Army of the United States. 'he general purpose of the ROTC is to provide officers for the United tates Army Reserve; it also now constitutes the principal source of pro- ırement of junior officers for the Regular Army. Under the provisions of ıe Reserve Forces Act of 1955 all qualified ROTC graduates will be com- ıissioned in the appropriate reserve component. Graduates of the pro- ram who enter active military service for two or more years will acquire ı additional four-year obligation in the Ready Reserve (total of six years). hose who are excess to Active Force requirements will be given six months active duty for training, following which they will remain in the Ready eserve until the eighth anniversary of the receipt of their commissions. udents who demonstrate special aptitude or proficiency will be offered an ɔportunity for an appointment in the Regular Army through the Dis- ŋguished Military Graduate Program. For the past three years Regular arine Corps commissions have been proffered to the ROTC graduates this unit.

The General Military Science ROTC program consists of subjects and aterial general in nature and scope so that the Department of the Army ay appoint second lieutenants in the combat, administrative, and technical rvices of the Army.

The courses include both classroom and out-of-doors instruction.

The instructors in the department are officers of the United States Army assigned for duty at the college by the Department of the Army. The most modern weapons, equipment and types of instructional material are furnished to give the students practical experience in handling such equipment.

The four year program is divided into the Basic Course and the Advanced Course. Enrollment in the Basic Course is on a voluntary basis. Enrollment in the Advanced Course is on a selective basis. After a student has enrolled in either course, the completion of the second year of that particular course becomes a prerequisite for graduation.

Normally, the four year program for an incoming freshman without prior military service or prior ROTC training would be as follows:

Freshman Year	1st year Basic ROTC Course	MS I
Sophomore Year	2nd year Basic ROTC Course	MS II
Junior Year	1st year Advanced ROTC Course	MS III
Summer Vacation	ROTC Summer Camp (6 weeks)	
Senior Year	2nd year Advanced ROTC Course	MS IV
Graduation	Appointment as 2nd Lieutenant United States Army Reserve	

The Basic Course is open to all physically fit male students who are United States citizens. ROTC enrollment does not interfere with participation in sports by students nor in other college activities. Uniforms, equipment and texts for the courses are issued to the students without charge.

Previous military service furnishes a basis for credit for Basic Course instruction according to the individual's length of service, type of training, and honorable discharge from the Armed Forces of the United States.

Enrollment in the Advanced Course (MS III and MS IV) is limited to selected members who have completed the Basic Course, or have received equivalent credit. A student entering the Advanced Course must sign an agreement with the United States Government that he will devote five (5) class hours per week to Military Science during the academic year, that he will attend an ROTC Summer Camp of six (6) weeks duration between his MS III and MS IV courses, and that he will accept an appointment as a second lieutenant in the United States Army Reserve, if tendered. In consideration of this agreement, students receive cash allowances from the Government equivalent to a scholarship of about $640.00 for the two (2) year period of the Advanced Course. (See page 46.)

After the completion of one academic semester, regularly enrolled students are given an opportunity to sign a "deferment agreement." They may then be deferred from induction and service under the UMT&S Act until completion of both their ROTC and academic courses provided they remain in good standing. A college freshman who is eligible for MS II or III because of previous training, if selected for enrollment and authorized a period of nonattendance, may be deferred during that period of nonattendance.

a-1b. Military Science Course I. (Basic Course). *Staff.* American Military History; Organization of the Army and ROTC; Individual Weapons and Marksmanship; and School of the Soldier and Exercise of Command (Drill). 2 units. Class *TTh, 8, 9* or *10;* drill, *M, 1:15-2:05.*

2a-52b. Military Science Course II. (Basic Course). *Staff.* Map and Aerial Photograph Reading; Crew-served Weapons and Gunnery; and School of the Soldier and Exercise of Command (Drill). 2 units. Class *TTh, 8, 9,* or *10;* drill, *M, 1:15-2:05.*

03a-103b. Military Science Course III. (Advanced Course). *Staff.* Organization. Function and Mission of the Arms and Services; Leadership; Military Teaching Methods; Military Sanitation and First Aid; Rifle Marksmanship, Camouflage and Field Fortifications; Small Unit Tactics and Communications; and School of the Soldier and Exercise of Command (Drill). units. Class *MWF, 8* or *9; F, 11* or *1:15;* drill, *M, 1:15-2:05.*

Military Science ROTC Summer Camp. (Advanced Course). *Camp Staff.* Tactics and techniques; marksmanship and weapons training; marches and bivouacs; drills and parades; physical training and athletics; subjects pertinent to General Military Science. Six weeks, during the summer between the third and fourth year. Camp to be designated by Department of the Army.

54a-154b. Military Science Course IV. (Advanced Course). *Staff.* Supply and Evacuation; Motor Transportation; Troop Movements; Military Intelligence; Estimate of the Situation and Combat Orders; Command and Staff; Training Management; The Military Team; Military Administration; Military Justice; The Role of the United States in World Affairs and the Present World Situation; Leadership; Officer Indoctrination; and School of the Soldier and Exercise of Command (Drill). 3 units. Class *MWF, 8* or *9; , 11* or *1:15;* drill, *M, 1:15-2:05.*

Music

The Department of Music offers instruction and opportunity for musical performance both to concentrators in the field and to non-concentrators.

Courses open to non-concentrators: Music Appreciation (53), Theory (1, 2, , History and Literature (102, 103, 120, 121, 122, 123), Applied Music—cal and instrumental. Group activities open to all students include College noir (57), Orchestra (58), Band (59), Chamber Music (60), and the Glee ubs. Qualified students may be admitted by special action of the Department any course in music.

Requirements for concentration: The concentration program is designed both r the pre-professional musician preparing for a career as teacher or performer d for the student who may have other vocational plans but wishes to major music as an undergraduate. The following courses are required of all idents concentrating in music: Elementary Theory (1), Elementary Ear

Training, Sight Singing, and Keyboard Harmony (2), Intermediate Theory (55), Intermediate Ear Training, Sight Singing, and Keyboard Harmony (56), Advanced Theory (107), and the two-year sequence in the History of Musical Style (120, 121, 122, 123).

In addition to the required courses listed above, one of the following areas of concentration is required:

Applied Music: Music 111, 161, and 191 (Senior Recital).

Composition: Orchestration (113), Free Composition (158), and at least 4 units of Group Activities.

General Music: A choice of any of the offerings of the Department that will include at least 4 units of Applied Music, at least 8 units of Group Activities, and at least 4 units of Upper Division course work. The foregoing must include 8 units of Upper Division credit.

Secondary School Music: Choral Conducting (117), Instrumental Conducting (118), Rudiments in the Playing of Orchestral and Band Instruments (119), Orchestration (113), 4 units each in piano and voice (or equivalent), and work in Choir, Band, or Orchestra. In conjunction with the Claremont Graduate School, Pomona College offers a five-year program in which music majors who intend to teach in the public schools may meet the requirements for the General Secondary Credential. Such students will normally elect Secondary School Music as their area of undergraduate concentration. All students preparing for the teaching credential should consult with the Claremont Graduate School about the state requirements as early as possible.

Transfer students. Students transferring from other institutions as juniors should take Elementary Theory (1, 2) or its equivalent before coming to Pomona. They will be given a theory placement test to determine their proper course assignment and their transfer credit from previous college theory study.

THEORY, HISTORY, AND LITERATURE

1a-1b. Elementary Theory, *Mr. Eller, Mr. Kohn.* Diatonic harmony and simple, free counterpoint with emphasis on original work in small forms. Prerequisite: ability to read music and play an instrument. Must be accompanied by 2a-2b. 3 units. *MWF, 8* or *1:15.*

2a-2b. Elementary Ear Training, Sight Singing, and Keyboard Harmony *Mr. Eller, Mr. Kohn.* Practical application of the material of 1a-1b. 2 hours 1 unit. *MW, 10; TTh, 10, 1:15.*

4a-4b. Materials of Music. *Mr. Loucks.* Basic theory for the layman: melody harmony, counterpoint, rhythm, form, notation and reading of music. May not be counted toward concentration in music. 3 units. *MWF, 10.*

53a-53b. Introduction to Music. *Mr. Dayton.* A survey of the principa periods in music history, with detailed study of representative works drawn from the symphonic, operatic, concerto, and chamber music literature. No previous musical experience required. 2 units. *MW, 2:15.*

55a-55b. Intermediate Theory. *Mr. Loucks, Mrs. Briggs.* Advanced harmony and further work in counterpoint. Original work in small forms, with emphasis on the styles of Bach, Mozart, Beethoven, and the Romanticists. Must be accompanied by 56a-56b. Prerequisite: Music 1 and 2. 3 units. *MWF, 10,* or *11.*

56a-56b. Intermediate Ear Training, Sight Singing, and Keyboard Harmony. *Mr. Loucks, Mrs. Briggs.* Practical application of the material of 55a-55b. 2 hours, 1 unit. *MW, 9; TTh, 9* or *10.*

60a, 60b. Chamber Music. *Mr. Fiske.* A study of important chamber music literature from the 17th century to the present day through performance and analysis. Course also includes historical study of the works performed. Open only to advanced instrumentalists able to participate in performance. Permission of instructor required. The course may be repeated for credit. 2 units. *M, 1:15-3:05,* and arranged.

102. Contemporary American Music. *Mr. Dayton.* Study of significant trends and developments of twentieth-century music in the United States through stylistic analysis of representative works by leading composers. Ability to follow a score desirable. 2 units. First semester. *MW, 9.*

103a, 103b. Music in American History. *Mr. Fiske.* A study of the part music has taken in the social and educational growth of the United States, from the colonial period to the present day. Attention will be given to folk, popular, and art music and their importance in various phases of our national cultural development. Not limited to music students. 3 units. *TThS, 9.* Offered in alternate years; not given in 1956-57.)

107a-107b. Advanced Theory. *Mr. Loucks.* Two and three part writing in contrapuntal forms: experience in free composition. Prerequisite: Music 55 and 56. 3 units. *TThS, 8.*

113a-113b. Orchestration and Instrumentation. *Mr. Blanchard.* Scoring for orchestra, band, and vocal groups. Opportunity for public performance of outstanding work. Prerequisite: Music 55 and 56. 3 units. *Th, 2:15-4:05;* third hour arranged.

117. Choral Conducting. *Mr. Russell.* Technique of conducting, repertoire, score analysis, rehearsal planning, chorus building. Prerequisite, choral experience and demonstration of sufficient ability in sight-singing and piano. Permission of instructor required. 2 units. First semester. *T, 2:15-4:05.*

118. Instrumental Conducting. *Mr. Blanchard.* A course specifically designed for students working for the State Music Credential. Baton technique, beat formation in all rhythms, score reading, rehearsal problems, repertoire. Permission of instructor required. 2 units. Second semester. *T, 2:15-4:05.*

119a-119b. Rudiments in the Playing of Orchestral and Band Instruments. *Mr. Blanchard, Mr. Fiske.* A course designed to give the student a knowledge of the fundamentals of wind and string instruments through study and practice. First semester: winds; second semester: strings. 2 units. *Th, 1:15.*

The following four courses (120, 121, 122, 123) comprise a two-year se quence in the history of musical style. Study by formal analysis, clas performance, and guided listening, of a repertoire selected to exemplif the respective periods stylistically and chronologically, with supplementar readings in the basic works of history and reference. Permission of th instructor required for non-concentrators. Concentrators must take th sequence in order, one course per semester.

120. Music of the Middle Ages and the Renaissance. *Mr. Russell.* 3 unit First semester. *MWF, 9.*

121. Music of the Baroque and Pre-Classical Periods. *Mr. Kohn.* 3 units Second semester. *MWF, 9.*

122. Music of the Classical Period and the 19th Century. *Mr. Fiske.* units. First semester. *TThS, 9.*

123. Music of the 20th Century. *Mr. Dayton.* 3 units. Second semeste *TThS, 9.*

158a-158b. Free Composition. *Mr. Kohn.* Original work to develop th student's sense of musical structure and his individual style. Prerequisite Music 107. 3 units. *W, 1:15-3:05;* third hour arranged.

191a-191b. Program Planning and Interpretation. *Staff.* Planning and pe formance of the Senior Recital. 4 units (2 units in semester preceding recita and 2 units in semester of recital, or 4 units in recital semester only). Cred granted only upon completion of recital. Arranged.

AVAILABLE AT SCRIPPS COLLEGE

II-69. Nineteenth Century Music. *Mr. Pattison.* Year course. *TTh, 1:1 2:45.*

II-112. History of Opera. *Mr. Hymanson.* First semester. *MWF, 8.*

II-113. Music Criticism. *Mr. Hymanson.* Second semester. Arranged.

II-170. Contemporary Music. *Mr. Pattison.* Year course. *TTh, 3:15-4:45.*

GRADUATE STUDY IN MUSIC

Graduate work in Theoretical and Applied Music is offered under th auspices of the Claremont Graduate School.

GROUP ACTIVITIES

Open to all students in the college, subject to the following regulations: (1 permission of the instructor is required for Orchestra (58) and Band (59) (2) not more than two group activities may be taken simultaneously fo credit, and (3) a total of not more than 16 units of credit for group activitie may be counted toward the Bachelor of Arts degree.

57a, 57b. College Choir. *Mr. Russell.* The study of classic and contemporar choral music through rehearsals leading to public performance. All studen are eligible for the Choir, but continued membership is contingent upon sati factory performance in a singing test held in October on music practice

during the opening weeks of the semester. New members admitted in first semester only. Fee to cover cost of music, $2.00. 1 unit. May be repeated for credit. *MWThF, 12:30-1:05; T, 11:30-12:20.* (Women do not meet on *Th;* men do not meet on *M.)*

58a, 58b. Orchestra. *Mr. Fiske.* A study of major works of orchestral repertoire and application of the principles of orchestral routine through public performance. Two periods of attendance weekly. Additional sectional rehearsals at option of director. The course may be repeated for credit. 1 unit. *TTh, 4:15.*

59a, 59b. Band. *Mr. Russell.* Concert and field work, brass ensemble work, joint performance with choral groups, opportunity for performance of student compositions and arrangements. Two rehearsals weekly. 1 unit. May be repeated for credit. *MW, 4:15.*

Men's and Women's Glee Clubs. *Mr. Russell.* The Glee Clubs offer opportunity for performance in a small extra-curricular ensemble, both on and off campus. New members admitted by tryout only, at the opening of the college year. All students are eligible. Normal schedule: two rehearsals weekly. No credit.

APPLIED MUSIC

Study in Applied Music is open to all students. It may be taken either with credit or without, subject to the following provisions:

General. All students must pass qualifying examinations to establish eligibility for credit. Credit of 1 unit per semester is given for one private lesson weekly, 2 units per semester for two private lessons weekly. All private lessons are one-half hour in length. No credit is given for elementary study. No credit is given for work in Applied Music taken elsewhere.

Non-concentrators. Non-concentrators become eligible for a maximum of 4 units of Lower Division credit by passing the Lower Division qualifying examination. For more than 4 units of Lower Division credit they must take Elementary Theory (1) and Elementary Ear Training, Sight Singing, and Keyboard Harmony (2), or Materials of Music (4), either preceding or accompanying the additional work in Applied Music. Intermediate Theory (55) and Intermediate Ear Training, Sight Singing, and Keyboard Harmony (56) must precede or accompany all work for Upper Division credit.

Concentrators. Music 1 and 2 must precede or accompany all credit study by concentrators in music. Music 55 and 56 must precede or accompany all work for Upper Division credit. Concentrators in Applied Music are required to take two lessons per week in their major subject and to appear frequently in recitals.

Qualifying examinations. Students working for credit in Applied Music are enrolled in two categories: Lower Division (Music 11, 61), and Upper Division (Music 111, 161). The passing of a qualifying examination is required for entrance into either category. These examinations are normally

given at the beginning of each semester. Arrangements for the examinati should be made through the Applied Music instructor. Printed informati concerning the qualifying examinations may be obtained at the Music Depa ment office.

Limit of credit toward degree. A total of not more than 16 units of appli Music may be counted toward the Bachelor of Arts degree, normally to co prise 8 units in Lower Division and 8 in Upper Division. Students n sufficiently advanced to qualify for Upper Division credit may count a to of not more than 12 units of Lower Division credit. All Applied Music stu whether for credit or not, is recorded on the student's college transcript.

11. Applied Music, Freshman level.
61. Applied Music, Sophomore level.
111. Applied Music, Junior level.
161. Applied Music, Senior level.

Voice, *Mrs. Briggs, Mr. Pilon.*
Organ, *Mr. Blanchard.*
Piano, *Mr. Dayton, Mr. Eller, Mr. Kohn, Mrs. Briggs.*
Violin and Viola, *Mr. Fiske.*
Violoncello, *Miss Jean.*
Harp, *Mrs. Remsen.*
Flute, *Mr. Stevens.*
Oboe, *Mrs. Geller*
Clarinet, *Mr. Bloch.*
French Horn, *Mr. Pyle.*
Trumpet, Trombone, *Mr. Tyler.*

Lessons on other instruments may be arranged through the office of t Department.

FEES FOR INSTRUCTION	PER SEMES
For those paying regular tuition:	
One-half hour private lesson per week	$45.00
Each additional half-hour	40.00
For those carrying less than ten hours of college work, exclusive of work in applied music:	
One-half hour private lesson per week	60.00
Each additional half-hour	40.00
Class instruction	25.00

PRACTICE FEES	PER SEMES
Piano, one hour daily	6.00
Bridges Hall Organ (four manuals), one hour weekly	5.00
Two-manual Organ, one hour weekly	2.50
Bridges Auditorium Organ, Claremont College, (advanced students only) one hour weekly	15.00

Students in Music 1, 55, 107, 113, and 158 will be charged $6.00 per mester for the use of a practice piano unless they are already paying one the above practice fees.

Oriental Affairs

student concentrating in Oriental Affairs must take Oriental Affairs 51 and least one year's work in Asian language. Twenty-four hours of upper vision work are required. These hours should be selected from the following urses: Oriental Affairs 103, 104, 105, 111, 123, 140, 160; Philosophy 126.

. The Cultural Legacies of East Asia. *Mr. Ch'en.* A survey of e humanistic achievements of China and India, and their diffusion in other ıds in East Asia. 3 units. First semester. *MWF, 10.*

a, 52b. First Year Chinese. A course for beginners in the Chinese lan- age, with equal emphasis on the analysis of written characters and on actual e of the spoken language. 3 units. *TTh, 1:15.* (Omitted in 1956-57.)

3a, 103b. History of China. *Mr. Ch'en.* General survey of China's cultural itory. An effort will be made to interpret the complexities of the problem present day China in the light of her ancient cultural heritage. 3 units. *WF, 9.*

4. Chinese Literature in Translation. *Mr. Ch'en.* A study of out- nding Chinese literary works in English translation with the aim of a eper appreciation of Oriental life and thought. 3 units. Second semester. *WF, 10.* (Omitted in 1956-57.)

5. Contemporary East Asia. *Mr. Ch'en.* The impact of Occidental cultures d peoples upon East Asia and Southeast Asia; the physical, intellectual, and ral resources of Oriental nations; the post-war problems of these countries. nits. First semester. *MWF, 10.* (Omitted in 1956-57.)

. Japanese History and Culture. *Staff.* The evolution of Japanese ial, economic, and political institutions since prehistoric times. Geographical ndations and the development of Japanese philosophy, literature and fine arts. 3 units. Second semester. (Omitted in 1956-57.)

. Eastern Asia in the Nineteenth Century. *Staff.* Traditional patterns life and institutions in China and Japan, and to a lesser extent under the regimes in Korea, Siberia, and Southeast Asia. The impact of Western erialism and civilization upon those countries. 3 units. First semester. mitted in 1956-57.)

. Eastern and Southern Asia in the Twentieth Century. *Mr. Goodall.* ent and contemporary movements will be studied. First semester. *MWF, 11.*

140. History of Cultural Relations Between China and the Occident. *Mr. Ch'en.* A rapid survey of the religious, intellectual, literary and artistic relations and interchanges between China and the Western World from Greco-Roman times to the middle of the nineteenth century. 3 units. Second semester. *MWF, 9.* (Omitted in 1956-57.)

151a, 151b. Second Year Chinese. *Staff.* An intermediate course open to those who have had 52a, 52b. 3 units. *TTh, 2:45.* (Omitted in 1956-57.)

160. History of Asian Diplomacy. *Mr. Goodall.* Diplomatic relations of the Western Powers with Asian countries. 3 units. Second semester. *MWF, 11.*

181a, 181b. Third Year Chinese. A continuation of 151a, 151b with exercises in reading classical (Wenli) Chinese prose and poetry. 3 units. Arranged. (Omitted in 1956-57.)

195. Readings in Oriental Affairs. *Staff.* Prerequisite: one course in Oriental Affairs and permission of instructor. 2 or 3 units. Each semester. May be repeated for credit. Arranged.

Oriental Philosophy. For description see Philosophy 126.

AVAILABLE AT CLAREMONT GRADUATE SCHOOL

251a, 251b. Advanced Chinese.

Philosophy

Philosophy 57 is a general introduction to philosophy and is recommended for students who wish a general acquaintance with the subject. Either Philosophy 57, or two courses from the Philosophy 110, 111, 112 series, satisfies the distribution requirement.

Concentration: Students planning to concentrate in philosophy must take twenty-four units of upper division work, including four courses from the Philosophy 110, 111, 112, 113, 114 series. Philosophy 51 is strongly recommended for those concentrating in philosophy. Those intending to do graduate work in philosophy should have a reading knowledge of French and German.

Honors Study: Information concerning the Honors program in philosophy may be obtained from the Department.

Joint Concentration: Philosophy and History. History 1 and 55 and Philosophy 57 are the lower division requirements. Students electing the joint concentration must choose from each of the four groups below at least the number of units specified.

Group I	(9 units):	History 140, 190, and one pro-seminar.
Group II	(6 units):	History 101 or 102 or 103a or 103b or 107a or 108.
Group III	(6 units):	History 107b or 109 or 110 or 113a or 113b.

Group IV (15 units): Four courses from the Philosophy 110, 111, 112, 113, 114 series, and one additional upper division course in Philosophy.

The comprehensive examination will consist of three parts: the general History examination, one subject field in History selected by the student, and the general History of Philosophy examination, which will take into consideration the additional upper division work done in Philosophy.

Joint Concentration: Philosophy and Literature. English 50 and Philosophy 57 are the lower division requirements. Students electing the joint concentration must choose from each of the four groups below at least the number of units specified.

Group I (6 units): English 153 or 154 or 155 or 156.

Group II (9 units): English 101 or 102 or 103 or 104.

Group III (6 units): English 105 or 115 or 160 or 162 or 163.

Group IV (15 units): Four courses from the Philosophy 110, 111, 112, 113, 114, series, and one additional upper division course in Philosophy.

Students in the joint concentration will be examined in both fields in the comprehensive examination at the end of the senior year.

Joint Concentration: Philosophy and Religion. Religion 1, 2 and 65 and Philosophy 57 are the lower division requirements. Students electing the joint concentration must choose from each of the groups below at least the number of units specified.

Group I (15 units): Religion 101, 103, 104, 160, and one additional upper-division course in Religion.

Group II (15 units): Four courses from among the Philosophy 110, 111, 112, 113, 114 series, and one additional upper-division course in Philosophy.

. Introduction to Logic. *Mr. Iredell.* A study of the elements of deductive and inductive reasoning with special emphasis upon scientific hypotheses, probability, and deductive and inductive fallacies. 3 units. First semester. *MWF, 8.*

. Introduction to Ethics. *Mr. Sontag.* A consideration of such central issues as right and wrong, good and evil, justice and injustice. 3 units. Second semester. *MWF, 11.* (Open to Freshmen by permission of the instructor.)

a, 57b. Problems of Philosophy. *Mr. Iredell, Mr. Jones,* and *Mr. Sontag.* An introductory consideration of the meaning and method of philosophy, and examination of the major problems with which philosophers deal, such as ethics, theory of knowledge and metaphysics. 3 units. Three sections, *MWF, 10; TThS, 8.*

History of Philosophy series: Five semester courses, normally taken in sequence, designed to present the history of western philosophy through primary source readings, lectures and discussion.

110. Classical Philosophy. *Mr. Sontag.* From the beginnings of philosophic thought to the start of the Christian period, including the Pre-Socratics, Plato, Aristotle, the Stoics and the Epicureans. 3 units. First semester. *MWF, 11.*

111. Medieval Philosophy. *Mr. Sontag.* From St. Augustine to Duns Scotus, including the Pseudo-Dionysius, Scotus Eriugena, Anselm, Bonaventure and Thomas Aquinas. 3 units. First semester. *TThS, 10.* (Offered in alternate years. Omitted in 1956-57.)

112. Modern Philosophy. *Mr. Jones.* From the Renaissance to Kant, including Bacon, Descartes, Leibniz, Spinoza, Locke, Berkeley and Hume. 3 units. Second semester. *MWF, 11.*

113. The Nineteenth Century. *Mr. Jones.* From Kant to Nietzsche, including Hegel, Schopenhauer, Mill, Comte, and Marx. 3 units. First semester. *MWF, 9.* (Offered in alternate years; omitted in 1956-57. See Philosophy offered in Claremont Graduate School.)

114. Contemporary Philosophy. *Mr. Iredell.* A study of the philosophic thought of the 20th Century, with special reference to the dominant ideas of the civilization of today. 3 units. Second semester. (Omitted in 1956-57. See Philosophy IV-160 offered in Scripps College.)

116. Symbolic Logic. *Mr. Harrah.* An introduction to symbolic logic, with emphasis on the study of one system, including discussion of the relations between symbolic logic, ordinary language, traditional logic and the modern theory of meaning. 3 units. First semester. *TTh, 1:15-2:35.*

118. Metaphysics and Ontology. *Mr. Sontag.* A speculative inquiry into the fundamental questions of existence, with special attention to the problems of being and non-being, infinite and finite, God and the world, substance, unity and time. 3 units. First semester. *WF, 1:15* and arranged.

124. Philosophy of Religion. *Mr. Sontag.* A study of the relationship of philosophy, theology and religion, including the questions of God's existence, God's nature, the nature of man and the claims of Christianity. 3 units. Second semester. *TThS, 9.*

126. Oriental Philosophy. *Mr. Iredell.* A study of some of the important thinkers and schools of oriental philosophy, and a comparison of oriental and western philosophical views and cultural ideals. 3 units. Second semester. *MWF, 8.*

131. Social and Political Ethics. *Mr. Sontag.* A consideration of such central issues as right and wrong, good and evil, justice and injustice, together with the historical and contemporary solutions which have been proposed. 3 units. Second semester. *WF, 1:15* and arranged.

132. Political Philosophy. *Mr. Jones.* A study of such concepts as the state, the individual, society, freedom, law, rights, and duty, emphasizing applications to currently competing systems. Second semester. *MWF, 9.* (Offered in alternate years; omitted in 1956-57.)

136. The Philosophy of Plato. *Mr. Sontag.* A systematic study of the dialogues of Plato, with emphasis upon uncovering the complete Platonic metaphysics, theory of knowledge and ethics. 3 units. First semester. *TThS, 9.* (Offered in alternate years; omitted in 1956-57.)

137. The Philosophy of Aristotle. *Mr. Sontag.* Designed to complement Philosophy 136, through a study of the similarities and differences between the two major classical philosophers, including a study of Aristotle's criticism of Plato. 3 units. Second semester. *TThS, 9.* (Offered in alternate years; omitted in 1956-57.)

138. The Philosophy of Kant. *Mr. Kaufman.* Reading and discussion of Kant's three *Critiques* and his work on religion, with the objective of gaining a balanced view of Kant's philosophy. 3 units. Second semester. *TTh, 1:45-3:05.* (Offered in alternate years; omitted in 1956-57.)

140. Kierkegaard and Existentialism. *Mr. Sontag.* A study of the writings of Kierkegaard, considered in contrast with Nietzsche, Jaspers, Marcel, Heidegger and Sartre. 3 units. First semester. *TThS, 9.*

151. Some Representative Philosophies of Life. *Mr. Jones.* A study of four philosophical poets—Lucretius, Dante, Goethe, and T. S. Eliot. 3 units. First semester. *MWF, 9.*

153. Philosophy of Science. *Mr. Harrah.* An explication of problems inherent in the nature of scientific method and theory. A survey of the historical background of some key ideas in science, with emphasis on the logical analysis of basic scientific operations, concepts and theories. 3 units. Second semester. *TTh, 1:15-2:35.*

190. Senior Research Project. *Staff.* Independent reading and study on a topic of the student's choice, culminating in a major research paper. The course may be repeated for a total of six units. 3 units. Each semester. Arranged.

History of Political Thought. See Government 182.

Introduction to the Philosophy of Education. See Education 151.

AVAILABLE IN SCRIPPS COLLEGE

V-54. Literary Interpretations of Philosophical Questions. *Mr. Barrett.* units. First semester. *MWF, 11.* (Omitted in 1956-57.)

V-57. Logic. *Mr. Barrett.* 3 units. Second semester. *MWF, 11.*

V-158. Standards, Symbols and Values. *Mr. Barrett.* 3 units. First semester. *MWF, 10.*

IV-160. Contemporary Philosophy. *Mr. Barrett.* 3 units. Second semester. *MWF, 10.*

IV-161a, 161b. Philosophy of Art. *Mr. Greene. TThS, 10,* and arranged. Registration by permission of the instructor.

AVAILABLE IN CLAREMONT MEN'S COLLEGE

110. Philosophy of Ideas. *Mr. Alamshah.* 3 units. First semester. Arranged.

160. Selected Problems in Philosophy. *Mr. Alamshah.* 3 units. Second semester. Arranged.

AVAILABLE IN CLAREMONT GRADUATE SCHOOL

244. Problems in Contemporary Political Theory. *Mr. Barrett.* 3 units. Second semester. *Th, 4-6.* (Omitted in 1956-57.)

230. Philosophy of Law. *Mr. Barrett.* 3 units. First semester. (Omitted in 1956-57.)

247. Selected Problems in the History of Philosophy: Hegel. *Mr. Merlan.* 3 units. Second semester. Arranged. (Omitted in 1956-57.)

251. Nineteenth Century German Philosophy. *Mr. Merlan.* 3 units. First semester. *T, 2:45-5:35.* Registration by permission of the instructor.

Physical Education

A student is required to take one unit of Physical Education Activities per semester during his Freshman and Sophomore years, and one-half unit per semester during his Junior and Senior years.

CONCENTRATION IN PHYSICAL EDUCATION

This program, followed by a year of graduate work, will qualify the student for the general credential with a major in physical education. It will also qualify the student for further study in physical therapy, occupational therapy, and recreation. Students interested in the three latter fields should confer with some member of the physical education department during the freshman year since slight changes in the following program may be needed to qualify for entrance to some of these fields.

In order to complete all required courses in the four year college period students should take courses in the year in which they are suggested below.

Freshman Year: Biology 1, English 1, Physical Education 5, Speech and Drama 32, 102.

Sophomore Year: Zoology 37, Education 101, Psychology 51, Sociology 51 and 52.

Junior Year: Physical Education 123, 124, 129, 152, 118 or 119 (women) 191 (men), 192 (men), Psychology 107. Suggested: Music 53, Physical Education 224.

Senior Year: Physical Education 126, 154, 192 (men), 130 (women), 118 or 119 (women), Psychology 108.

In addition to the above, 6 units of physical education activities are required. It is suggested that these be so selected as to give the individual opportunity for both technical skills and leadership training in a wide range of activities.

A reading knowledge of French or German is highly desirable for students planning graduate research in physical education.

A non-credit Camp Counselor's training course for women is held throughout the year. The course aims to provide its members with experience and skills useful in summer camps, playgrounds, and other activities of community recreation. (Given when there is sufficient demand.)

THEORY

5. Principles of Healthful Living. *Staff.* A consideration of factors that influence the physical and mental health of people as individuals and as members of society. Includes methods for the promotion of the health of the individual with emphasis on special health problems of college students and young people generally. 3 units. First semester. *MWF, 10.*

118a-118b. (Women). Methods of Teaching Individual and Dual Sports. *Staff.* Analysis of techniques and methods of presenting individual and dual sports at the elementary and secondary school levels, in camp and playground situations. Supervised teaching of the individual and dual sports in college classes. Prerequisite: minimum skill in the following physical education activities: archery, badminton, swimming, tennis. 2 units. *MW, 9* and arranged. (Given in alternate years. To be omitted 1956-57.)

119a-119b. (Women). Methods of Teaching Team Sports. *Staff.* Analysis of techniques and methods of presenting team sports at the elementary and secondary school levels, in camp and playround situations. Supervised teaching of the team sports in college classes. Prerequisite: minimum skill in the following physical education activities: basketball, hockey, softball, speedball, volleyball. 2 units. *MW, 9.* (Given in alternate years.)

123. Nature and Function of Play. *Miss Cawthorne.* The psychology of play and the function of play in growth, development, social adjustment and democracy. Special attention is given to the elementary school physical education program. First semester. 2 units. *TTh, 8.*

124. Community Recreation. *Miss Cawthorne.* The history, organization and administration of municipal and private recreation (including camping) in the United States. Methods of conducting a varied activity program. Second semester. 2 units. *TTh, 8.*

126. Community Hygiene. *Staff.* A survey of the field of public health and sanitation. A summary of public health agencies, extensive study of public and private water supplies, disposal of wastes, control of food and dairy products, and mental, industrial and school hygiene. Second semester. 3 units. *MWF, 10.*

129. Kinesiology. *Miss Cawthorne.* An analysis of joint and muscular mechanisms, and their relation to problems of bodily development and efficiency. Prerequisite, Zoology 37. 3 units. First semester. *MWF, 8.*

130a, 130b. The History and Teaching of Dance. *Staff.* Analysis of the problems and techniques of teaching rhythms at the elementary or high school level. First semester: historical background of folk and contemporary dance and teaching elementary rhythms and folk dance. Second semester: advanced technique and composition and teaching contemporary dance at the secondary level. One hour lecture, two hours laboratory, each semester. 2 units. Lecture *M, 10;* laboratory *WF, 10.*

152. Physical Deviations. *Miss Cawthorne.* Study of body mechanics and the causes, prevention, and correction of physical defects. Methods of examination, prescription of exercises. Prerequisite, 129. 3 units. Second semester. *MW, 8;* and laboratory *F, 8-10.*

154. Principles of Physical Education. *Mr. Malan.* A study of the philosophy of Physical Education as revealed by a survey of basic guiding principles. Includes a critical analysis of current practices in the field. Limited to juniors and seniors majoring in Physical Education and Education. 3 units. Second semester. *MWF, 11.* (Omitted 1956-57.)

191a, 191b. (Men). Methods of Teaching the Major Sports. *Staff.* A study of the theories and techniques in teaching and coaching the major sports of the school physical education program. Limited to junior and senior majors and minors in Physical Education and Education. Others must have permission of department. 2 units. *TTh 1:15* and arranged.

192a, 192b. (Men). Methods of Teaching Minor Sports. *Mr. Strehle.* A study of the theories and techniques in teaching the minor sports and other physical education activities. Limited to junior and senior majors and minors in Physical Education and Education. Others must have permission of department. 2 units. *MW, 2:15* and arranged.

224. Organization and Administration of Physical Education. *Mr. Strehle.* Required for teaching credential. 3 units. *Th, 7-9 (Available at the Claremont Graduate School during Summer Session when there is sufficient demand.)*

MEN'S ACTIVITIES

Students engage in programs of physical education activities selected according to individual needs as determined by medical and physical examinations and tests. Complete freedom in the choice of activities is permitted only to men who maintain acceptable standards in health, physical development, and physical efficiency. Among the minimum requirements of the Department are good posture, ability to swim, elementary skill in self defense, proficiency in fundamental activities, reasonable skill in at least one individual sport and in one team game.

The following physical education activities are carried on under supervision of the Department: Archery, badminton, baseball, basketball, boxing, corrective exercises, cross country running, dancing, fencing, football, golf, gymnastics, American Red Cross life saving, skiing, soccer, softball, swimming and diving, tennis, touch football, track and field athletics, tumbling, volleyball, water polo, weight lifting, and wrestling. Co-educational classes are sponsored also with the Women's Department. Fees as indicated are required each semester of those who select archery ($1.50), fencing ($7.00), golf, ($12.50).

The Department conducts a competitive intramural program including sports in season.

The college program of intercollegiate athletics is an integral part of the program of Physical Education. No student is permitted to participate in the more strenuous forms of competition without a certificate from the College Physician indicating that the individual is physically fit for such participation.

The student obtains credit in the required courses listed below by participation in activities selected in accordance with the principles set forth in the preceding paragraphs.

ta-1b. Physical Education Activities. *The Staff.* Required, Freshman year ½ unit. Arranged.

2a-2b. Physical Education Activities. *The Staff.* Required of Freshmen not taking Military Science. ½ unit. Arranged.

53a-53b. Physical Education Activities. *The Staff.* Required, Sophomore year. ½ unit. Arranged.

54a-54b. Physical Education Activities. *The Staff.* Required of Sophomores not taking Military Science. ½ unit. Arranged.

05a-105b. Physical Education Activities. *The Staff.* Required, Junior year. ½ unit. Arranged.

07a-107b. Physical Education Activities. *The Staff.* Required, Senior year. ½ unit. Arranged.

WOMEN'S ACTIVITIES

Medical and physical examination is given all entering students with subsequent posture tests. Physical activities are allowed or prescribed as the result of these examinations. Participation in a Fundamental Activity is required one semester of the Freshman year. Students may have freedom of election in other activities in so far as medical and physical examinations warrant, but must include by the end of the Sophomore year one individual sport and one semester of some form of dancing. The passing of a swimming achievement test is required for graduation. It should be completed by the end of the Sophomore year.

Activity fees are charged for badminton, and archery ($1.50 semester), golf ($12.50 semester), fencing ($7 semester), social dancing ($10 semester).

Six units of Physical Education Activities are required for graduation. One half unit is credited for Fundamentals, which includes courses organized to teach the basic fundamentals of physical activity. The remaining 5½ units may be earned by participation in other activities.

Freshmen and Sophomores must arrange their activities so that classes are taken on M, T, W, and Th.

Fundamentals: contemporary dance, ballet, individual gymnastics, group gymnastics, body mechanics.

Team Sports: basketball, softball, speedball, hockey, volleyball.

Individual Sports: archery, badminton, tennis, golf, swimming, fencing, bowling.

Dancing: contemporary, folk and square, social, ballet.

Recreational Games: table tennis, paddle tennis, etc.

11a-11b. Fundamentals and Other Activities. *The Staff.* Required, Freshman year. ½ unit. Arranged.

12a-12b. Sports or Dancing. *The Staff.* Required, Freshman year. ½ unit. Arranged.

63a-63b. Physical Education Activities. *The Staff.* Required, Sophomore year. ½ unit. Arranged.

64a-64b. Physical Education Activities. *The Staff.* Required, Sophomore year. ½ unit. Arranged.

115a-115b. Physical Education Activities. *The Staff.* Required, Junior year. ½ unit. Arranged.

117a-117b. Physical Education Activities. *The Staff.* Required, Senior year. ½ unit. Arranged.

Physics

The Lower division preparation for a concentration includes Physics 5 and 52, Mathematics 50 or 65 and Chemistry 1. The minimum concentration includes 26 units of upper division physics, and Mathematics 102 and 15 Additional work in chemistry, engineering drawing and mathematics recommended. The minimum concentration will normally be elected by those who plan to use physics in combination with training in some other field and who do not plan to do graduate work in physics.

A student who plans to do graduate work in physics will normally add the above courses Physics 191 and 192. He is expected to establish a good foundation in chemistry and mathematics and to acquire a reading knowledge of German.

All students concentrating in physics will consult with the physics staff)out their concentration examination during the first week of their senior :ar.

., 1b. Introduction to Physical Science. *Mr. Fryer.* Intended for those ishing to obtain a knowledge of physics and related topics from the other ıysical sciences. The historical aspects of physical science with emphasis)on the method of science and the persons who have contributed to the esent understanding. Illustrated by numerous experimental demonstrations d films. Fee $5.00 each semester. 3 units. *MWF, 10.*

a, 51b. General Physics. *Mr. Fowler.* Mechanics, heat, sound, light, elec- city and magnetism, and an introduction to atomic physics. This course, gether with Physics 52, is planned especially for those students who expect continue studies in physics, chemistry, engineering or medicine. Prereq- site: Mathematics 1. Open to freshmen only by permission of the Depart- ent Staff. 3 units. *TThS, 8.*

a, 52b. General Physics Laboratory. *Mr. Henke and the Staff.* Quanti- ive laboratory problems selected from the subjects treated in Physics 51. ysics 51 or equivalent must accompany or precede this course. Laboratory $3.00. 1 unit. *MTWTh* or *F, 1:15-4:05.*

ıa, 101b. Atomic and Nuclear Physics. *Mr. Miller.* Introduction to the)erimental and theoretical foundations of modern atomic and nuclear ysics. Prerequisites: Physics 51, Mathematics 50 preceding or 65 con- rrently. 3 units. *MWF, 8.*

). Heat and Thermodynamics. *Mr. Henke.* The principles of thermo- ıamics and kinetic theory. The first and second laws of thermodynamics l their application will be emphasized. Prerequisites: Physics 51, Mathe- tics 65. 3 units. First semester. *MWF, 9.*

;a, 113b. Mechanics. *Mr. Henke.* Kinematics, dynamics, and statics of ticles and rigid bodies with applications to problems of physics and engi- ring. Prerequisite: Physics 51, Mathematics 151 preceding or accompany- the course. 3 units. *TThS, 8.*

a, 141b. Electricity and Magnetism. *Mr. Fryer.* Electrostatics and elec- lynamics, electrical circuit theory, thermionics, and introductory electro- gnetic field theory. Prerequisites: Physics 51, Mathematics 151 preceding iccompanying the course. 3 units. *TThS, 9.*

a, 142b. Electrical Measurements, Laboratory. *Mr. Fryer.* The semester is concerned with direct-current measurements and the use tandard bridge circuits. The second semester emphasizes alternating-cur- circuits and vacuum tube devices commonly employed in physical and ineering laboratories. Laboratory fee $4.00. 1 unit. *T, 1:15-4:05.*

153. Optics. *Mr. Fowler.* Theory and applications of physical optics with emphasis upon the phenomena of interference, diffraction and polarization of light. Prerequisites: Physics 51, Mathematics 151 preceding or accompanying the course. 3 units. Second semester. *MWF, 9.*

191a, 191b. Mathematical Physics. *Mr. Fowler, Mr. Miller.* Application of mathematics to selected subjects in classical and quantum physics. Prerequisites: Physics 51, Mathematics 151 and approval of the instructor. 3 units. Arranged.

192a, 192b. Advanced Physics Laboratory. *Staff.* Experimental study of selected physical problems with emphasis on modern techniques in optical, atomic and nuclear physics. Prerequisite: Departmental approval. 1 unit. *Th, 1:15-4:05.*

199. Selected Topics in Physics. *Staff.* Special work in certain advanced subjects not treated in the other courses of the department is available to students of proven ability. Prerequisite: Departmental approval. 1 to 3 units. Each semester. May be repeated for credit. Arranged.

Psychology

Students concentrating in psychology are required to take psychology 51, and 24 units of upper division courses including psychology 109, 192 and 194. As a part of the latter requirement, 6 units may be offered from the following courses: Biology 112, Zoology 135, Mathematics 194, Sociology 152. Students should note that some of these courses are not offered every year. Training in zoology, physics, chemistry, French and German is recommended for students planning to do graduate work in psychology.

Psychology 51b is prerequisite to all further work in the department with the exception of Psychology 102. Child Psychology may be taken concurrently with 51b.

51a, 51b. Introduction to Psychology. *Staff.* Fundamental facts and principles of consciousness and behavior. The relation of the nervous system to mental processes and action. Practical applications in various fields. 3 units. Three sections, *MWF, 11,* and *TThS, 9, 10.* Section of 51a will be offered second semester. *MWF, 11,* and of 51b, first semester, *TThS, 9.*

55a, 55b. Psychology with Application to Business and Industry. *Mr. Bell.* Discussion of principles of psychology with application to business, industry and government. No prerequisites. Students completing course may take advanced courses in psychology with permission of instructor. 3 units. *MWF, 8.*

102. Psychological Statistics. *Staff.* Correlation methods, probability, chi square, tests of significance. Prerequisite: Psychology 51 or permission of instructor. 3 units. First semester. *TTh, 1:15-3:05.*

03. Individual Differences. *Mr. Bell.* A study of the nature and extent f individual differences and their causes as determined by objective methods. Applications in various fields. 3 units. First semester. *MWF, 9.*

07. Educational Psychology. *Mr. Faust.* Practical applications of psychology to education. 3 units. Second semester. *MWF, 9.*

08. Child Psychology. *Mr. Faust.* A survey of development and behavior f the young child. 3 units. First semester, *TThS, 10;* second semester, *MWF, 1.*

09. Introduction to Psychological Methods. *Staff.* Discussion and demonration of methods of studying psychological problems and evaluating data. aboratory experiments. Laboratory fee $1.50. Prerequisite: Psychology 51 id 102 or permission of instructor. 3 units. Second semester, *TTh, 1:15-3:05.*

17. Physiological Psychology. *Staff.* Physiological and neural aspects psychological functions. Permission of instructor required. 3 units. First mester. *MWF, 8.*

31. Abnormal Psychology. *Mr. Faust.* Problems of maladjustment; ctors contributing to mental disorders; methods of diagnosis and therapy. units. First semester. *MWF, 10.*

37. Theories of Personality. *Mr. Bell.* A critical examination and aluation of current theories of personality. Prerequisite: Psychology 131. 3 its. Second semester. *MWF, 10.*

4. Social Psychology. *Mr. Bell.* Examination of the psychological ctors of group behavior, with special emphasis on language behavior, intraoup and inter-group communication. 3 units. Second semester. *TThS. 9.*

8. Psychology of Adolescence. *Mr. Faust.* The study of later childhood d adolescence. Prerequisites: Psychology 108. 3 units. Second semester. *ThS, 8.*

0. Theories of Learning. Examination and evaluation of theories of rning, including current research and application of learning principles to man behavior. 3 units. Prerequisite: 12 units of psychology. First semester. *ThS, 10.* (Omitted in 1956-57.)

2. Systems of Psychology. *Mr. Faust.* A discussion of contemporary tems of psychology with special emphasis placed upon Behaviorism, Gestalt ychology, and Psychoanalysis. 3 units.

2. Reading and Research. *Staff.* Individual work on special topics. May repeated for credit. Three hours are required of students who are concenting in psychology. Either semester. 1-3 units. Arranged.

a, 194b. Senior Reading Course. *Mr. Bell.* A course designed to supplent and integrate the different courses offered to meet the concentration uirement in psychology and to prepare students for the comprehensive mination. Required of seniors who are concentrating in psychology. 3 ts. *T, 3:15.*

AVAILABLE AT SCRIPPS COLLEGE

IV-110. CHILD DEVELOPMENT. *Mrs. Jones.* Prerequisite, Elementary Psycho ogy. Year course. *MWF, 11.*

IV-112. CHILD STUDY IN THE NURSERY SCHOOL. *Mrs. Jones.* Prerequisi Elementary Psychology and IV-110. Year course. *MW, 2:15* and arrange hours in the Nursery School. Registration by permission of the instructor.

IV-114. NURSERY SCHOOL PROCEDURE. *Mrs. Jones.* Prerequisite, IV-112. Yea course. *MW, 3:15-4:05* and arranged hours in the Nursery School. Registratio by permission of the instructor.

V-119. HUMAN PSYCHOBIOLOGY. *Mr. Caster.* Registration by permission instructor. Year course. *TThS, 8.*

Religion

Students planning to concentrate in religion must take the following surve courses or their equivalents: Religion 1, 2 and 65; History 1; and eith Philosophy 57 or 110 and one other upper division course in the history philosophy. Twenty-four hours of upper division work, of which at lea eighteen must be in the field of religion at Pomona, are required. Six uni of upper division work may be taken in one of the related fields of classic English, education, government, history, philosophy, psychology, and sociolog

CONCENTRATION IN RELIGION AND PHILOSOPHY: See Philosophy.

1. THE RELIGION OF THE OLD TESTAMENT. *Staff.* An introduction to th developing beliefs and practices of Hebrew religion as set forth in the literatu of the Old Testament. 3 units. First semester. Four sections. *MWF, 8, 9; TTh 8, 9.*

2. THE RELIGION OF THE NEW TESTAMENT. *Staff.* An introduction to th origin and growth of the early Christian message as set forth in the literatu of the New Testament, with special attention to Jesus and Paul. 3 unit Second semester. Four sections. *MWF, 8, 9; TThS, 8, 9.*

65a, 65b. GREAT PERSONALITIES IN CHRISTIAN HISTORY. *Mr. Halsey.* Th historic development of Christian beliefs approached through the lives an thought of some of Christianity's outstanding representatives. First semeste early Christianity and the Middle Ages. Second semester: Reformation an post-Reformation developments. 3 units. *TThS, 10.*

101. PHILOSOPHY OF RELIGION. *Mr. Kaufman.* An analysis of the huma situation, its religious problems (anxiety, despair, love, hate, personal depen ence, etc.), and several answers to these problems, such as existentialism mysticism, rationalism, humanism, and Christian faith. 3 units. First semeste *TTh, 1:45-3:05.* (Alternates with 103. Omitted in 1956-57.)

103. Interpretation of Christian Ideas. *Mr. Kaufman.* An analysis of the Christian faith with consideration of such problems as the nature of God, Jesus Christ, man, sin, salvation, predestination, free will, and the Church. 3 units. First semester. *TTh, 1:15-2:45.* (Alternates with 101.)

104. Contemporary Religious Thought. *Mr. Kaufman.* Reading and discussion of European and American writers reflecting varying interpretations of the meaning of the Christian message for the modern world and its impact on contemporary thought. 3 units. Second semester. *MWF, 11.*

141. Christian Ethics. *Mr. Kaufman.* An analysis of ethical problems from a Christian perspective, showing the relation of Christian ethics both to Christian thought and to concrete personal and social experience. 3 units. First semester. *MWF, 11.* (Alternates with 142. Omitted in 1956-57.)

142. Christianity and Modern Culture. *Mr. Kaufman.* A critique, from a Christian perspective, of sociological, political, psychological, literary, and philosophical analyses of society, with consideration given to the roles of both the individual Christian and the Church. 3 units. First semester. *MWF, 11.* (Alternates with 141.)

146. Religious Values in Modern Literature. *Mr. Halsey.* Readings in 19th and 20th century fiction, verse, and drama, which directly reflect theological or religious concerns of the authors. The subject matter for 1956-57 will include readings from Kierkegaard, Nietzsche, Dostoyevsky, Tolstoy, Shaw, Hawthorne, and Gerard Manley Hopkins. 3 units. First semester. *ThS, 9.*

190. Catholicism and Protestantism. *Mr. Halsey.* A comparative study of the beliefs and practices of Roman Catholicism and those of Protestantism in both its original and contemporary forms. 3 units. Second semester. *TF, 2:45-4:05.*

191a, 191b. Advanced Readings in Religion. *Staff.* A reading program for upper division students. The subject for 1956-57 will be the problem of the nature of man. Admission by permission of instructor. 3 units. Arranged.

AVAILABLE AT SCRIPPS COLLEGE

140a-140a, 140b. The Religions of the World. *Mr. Shafer. TTh, 8,* and arranged hour.

142a-142a, 142b. Christianity in the Modern World. *Mr. Shafer.* Arranged hour.

Romance Languages and Literatures

Concentrators: A major in one Romance language is required to take a minimum of 24 units in courses numbered over 100. A major in Romance languages, 36 units.

French major: Prerequisite 81b; required 120, 141.

Spanish major: Prerequisite 91b; required 120, 151.

Romance Languages major: Prerequisite French 81b, Spanish 91b; required: French 120, 141; Spanish 120, 151.

Latin: Although not required, a knowledge of Latin is recommended, particularly for students who contemplate graduate work.

Final senior examinations: Every concentrator in the department is required to take general oral and written examinations in the appropriate Romance language as follows:

1) A one hour oral examination to test the student's command of the language.

2) A three hour essay examination on some phase of the culture to test the student's grasp of its civilization and his ability to write correct and effective language.

3) A three hour written general examination on the literature.

Extra-curricular activities: In addition to his classwork, the student may supplement his training by use of the Department's *Language Laboratory* facilities and participation in the Language Clubs. Attention is called to *La Maison Française* and *La Casa Hispánica* where students may elect to reside and enjoy the benefit of native speaking environment. Open to women only.

Language Placement: All students who have had foreign language training in Romance languages and who consider taking further work in the same language are required to consult the Department to determine at what level they should be placed.

Attention is called to the fact that the intermediate courses in French and Spanish meet lower Division Requirement 6.

FRENCH

Courses for concentration: Any courses numbered over 100. Prerequisite French 81b or its equivalent. Of the courses on the literature, French 120 must be taken first.

1a-1b. Elementary. *Mrs. Copple, Miss Blake, Mr. Young.* Essentials of grammar; written and conversational exercises. A cultural approach based on selected reading material. 3 units. Three sections. *MWF, 10; TThS, 10; MWF 1:15.*

1a-51b. INTERMEDIATE. *Mrs. Copple, Mr. Leggewie.* Second year college rench. Intensive class reading of selected cultural and literary texts; outside eading related to individual interests. Grammar review and conversational ractice. 3 units. Two sections. *MWF, 10; TThS, 10.*

1a, 61b. INTERMEDIATE CONVERSATION. *Mrs. Copple.* A course in spoken rench stressing fluency and accuracy. Dialogues, reports and practice work in anguage laboratory. Consent of the instructor required. 2 units. *TTh, 1:15.*

:a-81b. ADVANCED. *Mr. Leggewie.* Conducted in French as far as possible. itensive grammar review; extensive class and outside readings; oral and ritten reports in French. Prerequisite 51b or the equivalent. 3 units. *TThS, 9.*

ADVANCED COURSES

French 81b or its equivalent is required for admission to all advanced urses, except French 130.

0a-120b. SURVEY OF FRENCH LITERATURE AND CIVILIZATION. *Mr. ggewie.* A general outline course in the history of French literature from origins to modern times. 3 units. (Omitted 1956-57.)

4a, 124b. THE NOVEL OF THE NINETEENTH CENTURY. *Mr. Leggewie.* In- isive study of the novel and its evolution as a reflection of the intellectual, itorical and literary movements of the century. First semester, Romanticism; ond semester, Realism. 3 units. *TTh, 1:15-2:30.*

7. MODERN FRENCH THEATRE. *Mrs. Copple.* Study of representative play- ights of today with special emphasis on Claudel, Giraudoux, Sartre and mus. 3 units. (Omitted 1956-57.)

. ADVANCED CONVERSATION AND COMPOSITION. *Mrs. Copple.* A course igned to develop skill and accuracy in literary composition and oral ex- ssion. Required of majors. 3 units. (Omitted 1956-57.)

;a, 153b. LITERATURE OF THE SEVENTEENTH CENTURY. *Mrs. Copple.* In- sive study of the great masters of the French classical age: Corneille, lière, Racine. Lesser study of Descartes, Pascal, La Rochefoucauld and ers. 3 units. *MWF, 11.*

. LITERATURE OF THE EIGHTEENTH CENTURY. *Mr. Leggewie.* A study of Age of Enlightenment with particular emphasis on Montesquieu, Diderot, taire and Rousseau. (Omitted 1956-57.)

. READING AND RESEARCH IN FRENCH. *Staff.* Open to majors capable of pendent study to supplement advanced course work. Permission of in- ctor and departmental chairman required. May be repeated. 2-4 units. h semester. Arranged.

ITALIAN

b. ELEMENTARY ITALIAN. *Mr. Maggipinto.* Essentials of grammar; written conversational exercises. A cultural approach based on selected reading erial. 3 units. (Omitted 1956-57.)

81a-81b. Advanced Italian. *Mr. Maggipinto.* Conducted in Italian as far a possible. Extensive class and outside readings to serve as an introduction t Italian civilization. 3 units. *MWF, 10.*

SPANISH

Courses for concentration: Any courses numbered over 100. Prerequisit Spanish 91b or its equivalent. Of the courses on the literature, Spanish 12 must be taken first.

11a-11b. Elementary. *Mr. Maggipinto.* Essentials of grammar; written an conversational exercises. A cultural approach based on selected reading materia 3 units. *MWF, 11.*

71a-71b. Intermediate. *Mr. Young.* Second year college Spanish. Intensiv reading of selected cultural and literary texts; outside reading related to indi vidual interests. Grammar review and conversational practice. 3 units. *TThS, 9*

81a, 81b. Intermediate Conversation. *Mr. Young.* A course in spoke Spanish stressing fluency and accuracy. Dialogues, reports and practice wor in Language laboratory. Must have the consent of the instructor. 2 units *TTh, 1:15.*

91a-91b. Advanced. *Mr. Maggipinto.* Conducted in Spanish as far as possible Intensive grammar review; extensive class and outside reading; oral and writ ten reports in Spanish. Prerequisite 71b or the equivalent. 3 units. *MWF, 9*

ADVANCED COURSES

Spanish 91b or its equivalent is required for admission to all advance courses, except Spanish 170.

120a-120b. Survey of Spanish Literature. *Mr. Maggipinto.* A general out line course in the history of Spanish literature from its origins to moder times. 3 units. (Omitted 1956-57.)

151. Advanced Conversation and Composition. *Mr. Young.* A course de signed to develop skill and accuracy in literary composition and oral expression Required of majors. 3 units. First semester. *TThS, 10.*

180a, 180b. The Golden Age. *Mr. Maggipinto.* The Renaissance, the Baro que and the Neo-Classic periods in Spanish literature. Main topics: first semes ter, development of Spanish literary forms, chivalry, humanism, the picaresque and the Mystics; second semester, balladry and the theatre. 3 units. *TTh 1:15-2:30.*

190a, 190b. Contemporary Spanish Literature. *Mr. Young.* The Genera tion of '98, pre-Civil War figures, and significant authors of the present day Main writers: Unamuno, Baroja, Valle-Inclán, Benavente, Ortega y Gasset Juan Ramón Jiménez, Pedro Salinas, García Lorca. 3 units. (Omitted 1956-57.)

AVAILABLE AT SCRIPPS COLLEGE

-155. Survey of Spanish Literature. *Mrs. Lamb.* A year course. 3 units ach semester. *MWF, 1:15.*

FRENCH AND SPANISH LITERATURE IN TRANSLATION

rench 130. The Contemporary Novel. *Mr. Leggewie.* Study of such outtanding writers as Gide, Mauriac, Proust, Sartre and Camus. Lectures in nglish, readings in original or translation. 3 units. First semester. *MWF, 9.*

panish 170. Cervantes. *Mr. Young.* A study of the life and works of ervantes with special attention to Don Quixote and its relation to European iterature. Lectures in English, readings in original or translation. Second emester. *TThS, 10.*

* * *

In the Romance field the graduate work offered under the Claremont raduate School centers on the following periods of the literature: French: 7th Century, 18th Century, 19th Century, Contemporary Period. Spanish: re-Golden Age, Golden Age, Spanish and Spanish American of 19th Century, nd Contemporary Period.

Russian

a-1b. Elementary Russian. *Mr. Ein.* Essentials of grammar, pronunciation, nstant exercises in reading and writing. 3 units. *TThS, 9.*

ta-51b. Intermediate Russian. *Mr. Ein.* More advanced study of Russian ammar. Daily reading, writing, translating and practice in Russian conrsation. 3 units. *TThS, 10.*

)1a, 101b. Readings in Selected Russian Literature. *Mr. Ein.* Prerequisite: a and 51b or equivalent. 1 unit. May be repeated for credit. Arranged.

Social Institutions

OR STUDENTS whose needs and interests would be better served by a program study somewhat broader than in a departmental major, Pomona offers a ncentration in Modern Social Institutions drawing upon the courses of veral departments. The program is especially suitable for pre-divinity students d those planning to become social studies teachers in secondary schools.

Administered by the Department of Government, the concentration is ganized around five core courses and, in addition, an intraconcentration ajor and minor selected from three areas: American social institutions, mparative social institutions, and modern social thought.

The five core courses are History 55ab (History of the United States), ychology 154 (Social Psychology), Sociology 152 (Social Control), Religion 2 (Christianity and Modern Culture) and Government 180 (Social Instituns and Social Theory). The last named course, a seminar, is normally taken the senior year and culminates in a paper which is counted as a part of the mprehensive examination.

From the following courses concentrators must take at least twelve units in one area and six in another (normally the senior paper is written in the area of major emphasis): I. *American Social Institutions.* Economics 110 (Industrial Organization and Business Policy), Economics 111 (Labor Economics), Education 105 (History of Education—the United States), Education 185 (Higher Education in America), Government 157 (Parties and Pressure Groups), Sociology 112 (The American Community). II. *Comparative Social Institutions.* Economics 195 (Comparative Economic Systems), Education 104 (History of Education—Foreign and Comparative), Government 125 (Modern Democracies), Government 126 (Modern Totalitarianism: USSR), Religion 160 (Catholicism and Protestantism), Sociology 108 (Comparative Culture). III. *Modern Social Thought.* Education 151 (Philosophy of Education), Government 245 (American Political Thought), Government 182 (Political Theory: Normative), History 117ab (Intellectual History of Europe), Sociology 153 (Social Movements).

Sociology and Anthropology

Distribution requirement. In sociology and anthropology this requirement can be met in two ways: (a) by any two of the three courses, Sociology 51, Sociology 52, Anthropology 53; (b) by Sociology 51, or Anthropology 53, and any two upper division courses in the department.

Requirements for concentration. Sociology 51 and Anthropology 53, plus 24 units of upper division work in the department are required. Normally, Sociology 51 is taken first, but a student may elect to take the courses in reverse order.

Statistics. Although not an absolute requirement, all students concentrating in the department are advised to take a course in statistics, either Economics 57 or Psychology 102. These units may be applied toward the 24 units of upper division work required.

Related areas of study. Students concentrating in the department should take six units of upper division work in at least one of the following areas: education, economics, government, history, oriental affairs, philosophy, psychology, or religion. Consult the adviser for specific courses recommended in each department. Students planning to enter graduate study in anthropology should consult with the departmental adviser as early as possible concerning appropriate courses in science and the humanities.

Foreign languages. All students are urged to obtain a working knowledge of at least one modern foreign language. For those intending to engage in school teaching or social work in the southwest, this language should be Spanish. For those intending to take graduate work toward the Ph.D. in sociology, French and German are recommended. For those intending to pursue graduate study in anthropology, a reading knowledge of French and German is desirable, plus a command of the language in the culture area of one's choice.

Honors Study. Students who have better than a B grade average and who desire to pursue independent study may register for honors, preferably during their junior year, but no later than the beginning of the senior year. This program, culminating in a thesis, is especially useful where a student is interested in a project that cuts across departmental lines.

Sociology

51. The Study of Society. *Staff.* The basic characteristics and dynamics of society, culture, and personality as related to man's group behavior. Not open to freshmen. 3 units. First semester. Four sections. *MWF, 9, 11; TThS, 8, 10.*

52. Social Problems. *Mr. Ball.* An analysis of the major problems of present day society related to individual, family, community, and world disorganization. Open to second semester freshmen. 3 units. Second semester. Two sections. *TThS, 10; MWF, 11.*

106. Social Welfare. *Mr. Scaff.* The development of social welfare in the western world, and the basic principles that underlie modern practice. Field visits and observations. Prerequisite: Sociology 51, or consent of the instructor. units. Second semester. *MWF, 11.*

107. Criminology and Penology. *Mr. Ball.* Types of criminal behavior. Factors contributing to crime and methods of dealing with criminals. Prerequisite: Sociology 51, or two of the following: Economics 51, Government 1, History 1. 3 units. Second semester. *MWF, 9.*

109. Marriage and the Family. *Mr. Ball.* Adjustment of marriage and family patterns to our rapidly changing culture. Analysis of factors that produce family disorganization. Prerequisite: junior or senior standing. 3 units. First semester. *MWF, 10.*

110. Race Relations. *Mr. Leslie.* Discrimination against minority groups, and programs of action, with emphasis upon the American experience. Prerequisite: Sociology 51, or Anthropology 53, or consent of the instructor. units. Second semester, *TThS, 9.*

111. World Population and Migration Problems. *Mr. Ball.* An analysis of the basic characteristics of the population of the United States and of major areas of the world. The implications of population change for economic and political adjustments, international relations, and the development of world resources. Prerequisite: Sociology 51, or sufficient background in other social sciences to satisfy the instructor. 3 units. First semester. *TThS, 10.*

112. The American Community. *Mr. Scaff.* An analysis of modern American urban communities in contrast with rural communities. Supervised observation and field study in the local area. Prerequisite: Sociology 51, or Anthropology 53, or instructor's permission. 3 units. First semester. *MWF, 11.*

152. Social Control. *Mr. Ball.* Society's means of creating and maintaining its social patterns, through group norms and pressures, law, public opinion, propaganda, etc. Open to juniors and seniors only. Prerequisite: Sociology 51, or sufficient background in the other social sciences to satisfy the instructor. 3 units. Second semester. *TThS, 8.*

153. Social Movements. *Mr. Scaff.* Emphasis on the ideology and the dynamics of such movements as Socialism, Nazism, Communism, and Cooperation. Prerequisites: Sociology 51, or two of the following: Economics 51, Government 51, History 1. Open to Juniors and Seniors only. 3 units. First semester. *MWF, 9.*

154. The Development of Modern Social Theory. *Mr. Scaff.* The rise of modern sociology, with emphasis on the major contributions from Europe and America since 1900. Writing assignments and seminar discussion of important selected works. Prerequisite: Sociology 51, or Anthropology 53. Open to Juniors and Seniors only. 3 units. Second semester. *M, 3:15,* and arranged.

191a-191b. Institutional Analysis. *Mr. Scaff.* Application of basic social science concepts to the analysis and understanding of various types of institutional agencies and their programs. Seminar and field placements. Individual projects. Open only to seniors with written permission of the instructor. 3 units. *W, 3:15,* and arranged.

192a, 192b. Readings and Research in Sociology. *Staff.* Open to students capable of independent study. Individual programs must be approved in advance. 3 units. Arranged.

Anthropology

53. Cultural Anthropology. *Mr. Leslie.* The emergence of man and the development of various types of culture. Not open to freshmen except by written permission of the instructor. 3 units. Second semester. *MWF, 8.*

108. Comparative Cultures. *Mr. Leslie.* Scientific and practical problems related to the variety of cultures found in Asia, Africa, the Americas, and the South Pacific. Prerequisite: Sociology 51, or Anthropology 53, or instructor's permission. 3 units. First semester. *TThS, 9.*

130. Early American Civilizations. *Mr. Leslie.* The development of Mayan, Aztec and other civilizations with attention to the organization of their aesthetic, religious, and political traditions. No prerequisite. 3 units. First semester. *MWF, 8.*

160. Culture and Personality. *Mr. Leslie.* Social basis of personality in terms of case studies of primitive and folk cultures. Prerequisite: Sociology 51, or Anthropology 53, or instructor's permission. Open to juniors and seniors only. 3 units. Second semester. *MWF, 10.*

193a, 193b. Readings and Research in Anthropology. *Mr. Leslie.* Open to students capable of independent study. Individual programs must be approved in advance. 3 units. Arranged.

Speech and Drama

Requirements for concentration in speech and drama:

Lower Division Core Requirements: Speech and Drama 32, 51 (at least two units), 57, 61a, and 61b, in fulfillment of which requirements transfer students may offer equivalent courses pursued at other colleges.

Upper Division Requirements with Emphasis on Speech: Speech and Drama 102, 105, 136, or Scripps II-150a or 150b; English 155a, 155b or Scripps I-116a, 116b. Six additional units will be chosen from upper division courses in the Speech and Drama Department.

Upper Division Requirements with Emphasis on Drama: Speech and Drama 107a, 107b, 160a, 160b; Scripps II-150a, 150b; English 155a, 155b or Scripps I-116a, 116b. Additional units will be chosen from: Classics 160a, 160b; Speech and Drama 102, 105, 112a-112b; Scripps I-106, 107; Scripps II-149, 151a, 151b.

In addition to the required work in the speech and drama concentration, the following offerings are suggested as suitable electives, the choice among them depending on the student's particular interests: *Lower Division:* Art 51a-b; English 57, 63, 64; Music 53 a-b; Philosophy 51. *Upper Division:* Comparative Literature 181a, 181b; English 102, 154; French 127; Philosophy 137, 151; Physical Education 130a, 130b; Psychology 154. Fluency in at least one modern foreign language (preferably French) is recommended.

In the comprehensive examination the books on a supplementary reading list will be included.

In addition to the comprehensive examination, a demonstration of creative ability in the field of concentration is required.

2. Fundamentals of Speech. *Staff.* A course to develop skill in effective oral communication. Emphasis is given to training in the analysis, support, development of subject material, appropriate use of language, effective vocal and bodily expressiveness. 3 units. First semester. *MWF, 11, TThS, 8.*

1a, 51b. Play Production. *Staff.* Directed study in play production, both in acting and in stagecraft. One unit of credit granted for either fifty hours of rehearsal time under direction, or fifty hours of technical work under direction, or for fifty hours of rehearsal and technical work combined. Not more than two units of credit may be granted in any one year. A total of eight units of credit may be applied toward graduation.

7. Voice and Phonetics. *Staff.* Study of the physical, physiological, psychological attributes of speech, phonetics and phonetic transcription. Practice to improve the speaking voice. Prerequisite: Speech and Drama 32 or permission of the instructor. 3 units. First semester. *MWF, 9.*

61a, 61b. Character Presentation in Dramatic Literature. *Mrs. Allen.* A study of theories of acting and principles of stage behavior. Pantomime, improvisation, and presentation of scenes from plays. 3 units. *TThS, 10.*

102. Public Speaking. *Staff.* A study of the various types of speeches. Special emphasis on gaining interest and attention, modes of proof, methods of exposition, and the psychology of persuasion. Prerequisite: Speech and Drama 32 or permission of the instructor. 3 units. Second semester. *MWF, 11.*

105. Oral Interpretation. *Staff.* Development of skill in the oral presentation of literature. Practice in reading of expository and persuasive selections, poetry, and short stories. Development of reading programs. Prerequisite: Speech and Drama 32 or permission of the instructor. 3 units. Second semester. *TThS, 8.*

107a, 107b. Stagecraft. *Staff.* A consideration of the visual elements of play production; theory and practice in scene design, costuming and lighting. Includes a study of the history of stagecraft and scenic design, comparative styles and varying techniques in staging. Permission of instructor required. 2 units. One hour lecture, one hour lab. *T, 1:15-3:05.*

112a-112b. Playwriting. *Mrs. Allen.* Principles of playwriting and practice in writing plays. Study of the structure and style of significant plays for their light on the problems of the beginning playwright. Alternates with Speech and Drama 160a, b. 3 units. *TThS, 9.* (Omitted in 1956-57.)

136. Principles and Types of Discussion. *Staff.* The principles and types of group discussion as a method of problem solving. Projects in analysis, research, organization, logical processes, leadership. Prerequisite: Speech and Drama 32 or permission of the instructor. 3 units. First semester. *TThS, 9.*

137. Argumentation and Debate. *Staff.* A study of the principles of argumentation and their application in classroom debates on current political, social, and economic problems. Emphasis on logical thinking and its relationship to effective oral communication. Prerequisite: Speech and Drama 32 or permission of the instructor. Speech and Drama 136 is also strongly recommended. 3 units. Second semester. *TThS, 9.*

160a, 160b. Advanced Acting and Directing. *Mrs. Allen.* First semester: Detailed study of characterization and styles of acting. Second semester: Fundamental principles of stage directing. Application of theories in class exercises and in the direction of a one-act play. 3 units. *TThS, 9.*

165. Readings and Research in Speech. *Staff.* Reading and research programs for senior students who are capable of independent study in fields not included in regularly scheduled courses. 2 or 3 units. Arranged.

Shakespeare. For description see English 155a, 155b.

AVAILABLE AT SCRIPPS COLLEGE

II-150a, 150b. DEVELOPMENT OF THE THEATRE AND THE DRAMA. *MWF, 11.*

II-149. THEORY OF DRAMATIC PRODUCTION. Prerequisite: Speech and Drama 160a, 160b. *MWF, 1:15-3:05.*

II-151a, 151b. CHANGING TECHNIQUES AND STYLES IN ACTING. *Mr. Workman.* Prerequisite: Speech and Drama 160a, 160b. (Omitted in 1955-56.)

Zoology

ZOOLOGY CONCENTRATION. Requirements: Zoology 1, and 24 units of upper division credit in Zoology or Biology.

ZOOLOGY-CHEMISTRY CONCENTRATION. Requirements: Zoology 1, 37, or 121 and 135, and Biology 105; Chemistry 1, 59, 106, 110a, 111a or 2, 59, 106; Physics 1 or 51-52; and additional units upper division work in Zoology and/or Chemistry to make at least 24 units.

BIOLOGY CONCENTRATION. See Biology listing.

PRE-MEDICAL CONCENTRATION. See pre-professional programs; pre-dental, pre-nursing, optometry, physical therapy and other allied medical arts preparations are included in the above listed concentrations.

Zoology 11, 130 and 150 are offered at the Kerckhoff Marine Laboratory at Corona del Mar from August 6 to September 8, 1956. Tuition for 6 units is $90.00. Further information should be secured from Mr. Pequegnat.

a, 1b. GENERAL ZOOLOGY. *Mr. Pequegnat, Mr. Amrein.* An introduction to modern zoology with special reference to phylogeny, physiology, development, genetics, and evolution; laboratory exercises include a study of selected animals and phenomena which best illustrate important zoological principles. No prerequisites. Laboratory fee $6.00 each semester. 3 units. Two sections. Section A, lectures *TTh, 8;* laboratory *Th* at either *1:15-3:05* or *3:15-5:05.* Section B, lectures *TTh, 10;* laboratory *W* at either *1:15-3:05* or *3:15-5:05.* Laboratory maximum of 24 students.

1. MARINE ZOOLOGY AND ECOLOGY. *Mr. Pequegnat.* An elementary course in biological principles as observed in marine animals. Evolutionary development of the various groups, their specific identification, their ecological distribution, and their habits. Lecture, laboratory, and field work. Designed especially to fulfill the Biological Science requirement. Offered at the Marine Laboratory during the summer. 6 units.

37. Introduction to Anatomy and Physiology. *Mr. McCarthy.* A course designed primarily for students whose interests lie in physical education physical or occupational therapy or nursing, psychology or sociology. Special attention given to the human subject and to the physiology of exercise. 3 units. Laboratory fee $6.00. Prerequisite: Biology 1 or equivalent. First semester. Lectures *MWF, 10;* laboratory *F, 1:15-4:05.*

106. Parasitology. *Mr. Amrein.* A consideration of animal associations and parasitism in general with special reference to those parasites of medical economic, and social importance. Prerequisite: any of the following: Zoology 1, 11, or Biology 1. 2 units. Second semester. *TTh, 9.*

107. Parasitology Laboratory. *Mr. Amrein.* Study of representative living and preserved parasites. Prerequisite or concurrent: Zoology 106. Laboratory fee $4.00. 1 unit. Second semester. *T, 1:15-4:05.*

115. Comparative Anatomy. *Mr. Pequegnat.* A course embodying an analysis of the phylogenetic changes undergone by the principal organ systems accounting for their present structure, and a comparative study of the structure of modern vertebrates. Prerequisite: Zoology 1. Laboratory fee $8.00. 4 units. First semester. Lectures *TTh, 9;* laboratory *T* and *Th, 1:15-4:05.*

120. Vertebrate Embryology. *Mr. McCarthy.* A study of development from fertilization through organogenesis. Prerequisite: Zoology 115. Laboratory fee $8.00. 4 units. Second semester. Lectures *MWF, 9;* laboratory *1:15-4:05* either *M* or *Th.*

121. Mammalian Physiology. *Mr. Ryerson.* The functions of organs and organ systems with emphasis on neural and humoral controls resulting from cellular changes. Prerequisites: one year of college chemistry, and Zoology 1 or equivalent. Laboratory fee $8.00. 4 units. First semester. Lectures *MWF, 8* laboratory *T, 1:15-4:05.*

125. Histological Technique. *Mr. McCarthy.* Theory and practice of preparation of vertebrate cells and tissues for microscopical study. Laboratory fee $4.00. 1 unit. First semester. *W, 1:15-4:05.*

126. Vertebrate Histology. *Mr. Ryerson.* Microscopic anatomy of representative vertebrate tissues and organs. Laboratory fee $6.00. 3 units. First semester. Lectures *MW, 9;* laboratory *Th, 1:15-4:05.*

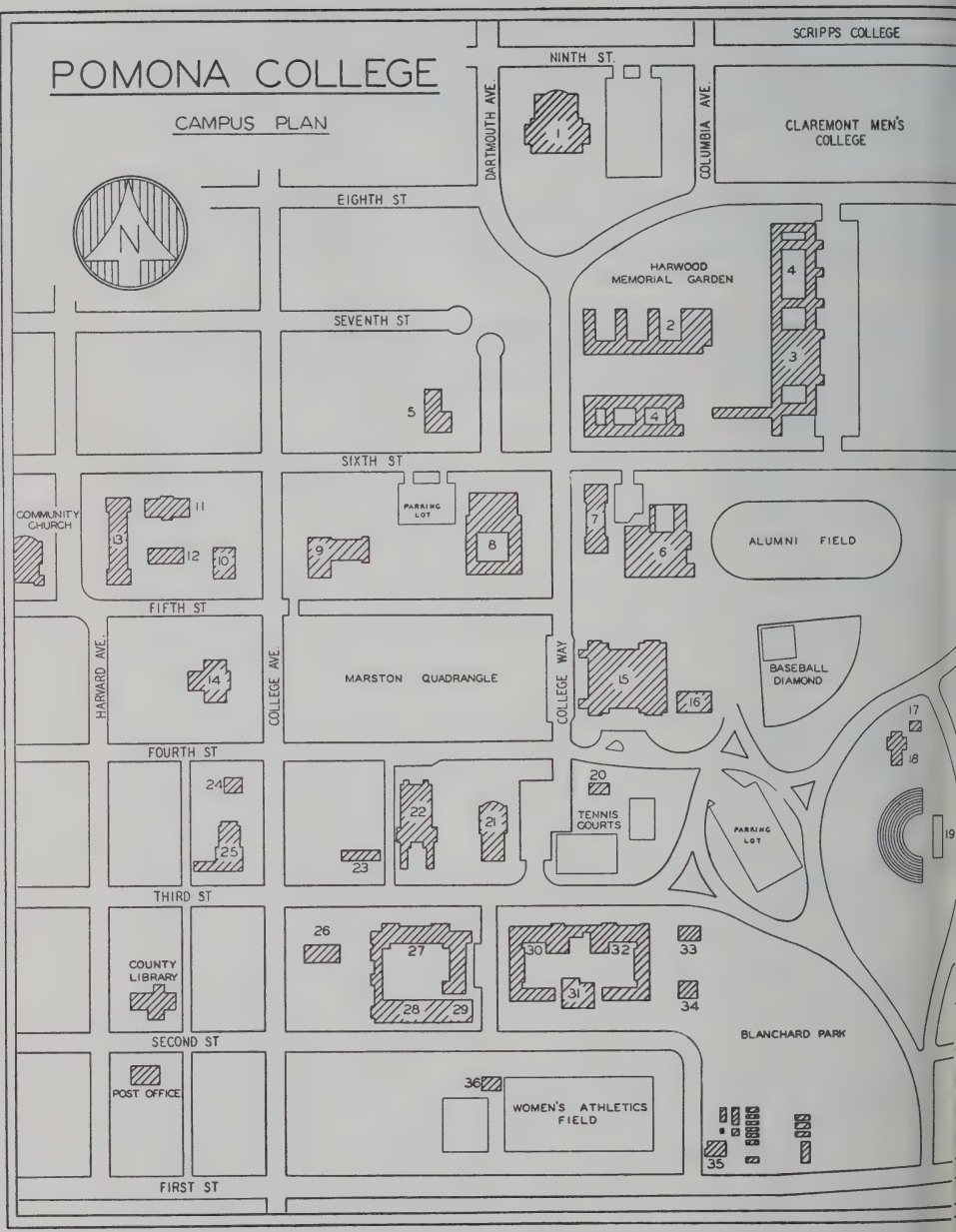
130. Marine Invertebrates. *Mr. Pequegnat.* A study of invertebrates residing in the sea: their phylogenetic relationships, their morphology, and their physiology. Laboratory devoted principally to Pacific Coast types. Offered at the Marine Laboratory during the summer. 3 units.

135. Mammalian Anatomy. *Mr. Ryerson.* The gross anatomy of mammals illustrated by regional dissections of the cat. Prerequisite: Zoology 1 or equivalent. Laboratory fee $6.00. 4 units. Second semester. Lectures *MW, 8* laboratory *W* and *F, 1:15-4:05.*

150. Marine Ecology. *Mr. Pequegnat.* A study of marine invertebrates as they exist in the field. Discussion of the distribution of each species observed and the factors which may account for these distributional patterns. Prerequisite: a thorough grounding in the morphology and physiology of marine invertebrates or Zoology 130 concurrently. Offered at the Marine Laboratory during the summer. 3 units.

157. Animal Ecology. *Mr. Pequegnat.* A study of environment, life history, populations, communities, distribution, and evolution, with particular emphasis on the vertebrates. Laboratory fee $4.00. 4 units. Second semester. Lectures *TTh, 9;* laboratory *TTh, 1:15-4:05.*

199. Introduction to Research in Zoology. *Staff.* Each semester. 1 to 3 units. May be repeated for credit. When laboratory work is involved, laboratory fee, $2.00 per unit. Offered at Marine Laboratory as well as at Claremont. Arranged.


POMONA COLLEGE
CAMPUS PLAN
N
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DARTMOUTH AVE.
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CLAREMONT MEN'S COLLEGE
EIGHTH ST
HARWOOD MEMORIAL GARDEN
SEVENTH ST
SIXTH ST
COMMUNITY CHURCH
PARKING LOT
ALUMNI FIELD
FIFTH ST
HARVARD AVE.
COLLEGE AVE.
MARSTON QUADRANGLE
COLLEGE WAY
BASEBALL DIAMOND
FOURTH ST
TENNIS COURTS
PARKING LOT
THIRD ST
COUNTY LIBRARY
BLANCHARD PARK
SECOND ST
POST OFFICE
WOMEN'S ATHLETICS FIELD
FIRST ST

POMONA COLLEGE CAMPUS PLAN

(See map on opposite page)

1. Honnold Library operated by Claremont College for the Associated Colleges.
2. Helen R. Walker Hall, residence for men.
3. Frary Hall, central dining hall for men.
4. Eli P. Clark Hall, residence for men.
5. Baxter Medical Building for the Associated Colleges.
6. Memorial Gymnasium and Swimming Pool.
7. Smiley Hall, residence for men.
8. Edmunds Union, including student offices, cooperative store, ballroom, and lounges.
9. Holmes Hall, classrooms and assembly hall.
10. Pearsons Hall, physics laboratory, mathematics department.
11. Crookshank Hall, botany, biology, and zoology laboratories.
12. Harwood Hall, department of psychology.
13. Mason Hall, chemistry and geology laboratories.
14. Carnegie Building. Classrooms and offices.
15. Mabel Shaw Bridges Auditorium, seating 2600, operated by Claremont College in behalf of the Associated Colleges.
16. Renwick Gymnasium.
17. Seaver Laboratory, containing classrooms and library for the department of astronomy.
18. Frank P. Brackett Observatory.
19. Open-Air Theatre.
20. Replica of original home of Pomona College.
21. Sumner Hall, administration and classroom building.
22. Mabel Shaw Bridges Hall of Music, assembly hall for recitals and chapel services; music studios and practice rooms.
23. Rembrandt Hall, art studios.
24. President's House.
25. Claremont Inn, guest house for college and community, private and public dining rooms.
26. Baldwin House, residence for women.
27. Harwood Court, residence hall for women.
28. Aurelia Squier Harwood Memorial Dining Hall for women.
29. Mary McLean Olney Dining Hall for women.
30. Della Mulock Mudd Hall, residence for women.
31. Jessie E. Gibson Dining Hall for women.
32. Florence Carrier Blaisdell Hall, residence for women.
33. Casa Hispánica, residence for women.
34. Maison Française, residence for women.
35. Heating Plant and Maintenance Shops for the Associated Colleges.
36. Field House for women's athletics.

The Business Office for the Associated Colleges is located in Harper Hall at ollege and Tenth Streets.

The Infirmary for the Associated Colleges is located on Amherst Avenue rth of Foothill Blvd.

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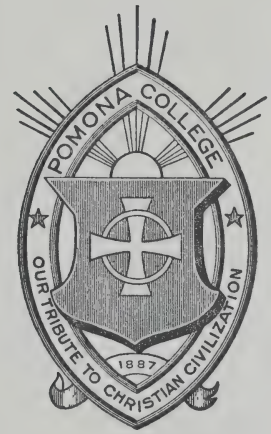
1957-1958



Pomona College

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UNIVERSITY OF ILLINOIS

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CALENDAR FOR 1957

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Term of Office Expires June, 1961

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George L. Eastman, *Hollywood*
Mary Clark Eversole, *La Canada*
Ernest E. Jones, *Claremont*
George R. Martin, *Los Angeles*
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President of the Women's Campus Club
President of the Pomona College Associates

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Franklin L. Ferguson, *1897 - 1901*
James A. Blaisdell, *1910 - 1928*
Charles K. Edmunds, *1928 - 1941*

GENERAL ADMINISTRATION

1957-58

. Wilson Lyon, *President* — *209 Sumner Hall*
B.A., University of Mississippi; B.A. and B. Litt., University of Oxford; Ph.D. University of Chicago; LL.D., Colgate University; D.Litt., Occidental College; L.H.D., Trinity College.

llen F. Hawley, *Vice-President in Charge of Development* — *203 Sumner Hall*
B.A., Pomona College; Graduate Student, Harvard University.

aul H. Burton, *Controller* — *Harper Hall*
B.A. Western Reserve University.

illiam V. Shannon, *Treasurer* — *Harper Hall*
B.S., Virginia Military Institute.

illiam B. Himrod, *Assistant to the President* — *203 Sumner Hall*
B.A., Pomona College. Graduate Student, University of Southern California.

hn F. Moulds, *Assistant to the President* — *203 Sumner Hall*
Ph.B., University of Chicago.

arren B. Knox, *Assistant to the President and Secretary of Pomona College Associates* — *203 Sumner Hall*
B.A., M.A., Whittier College.

lenn V. Fuller, *Bursar* — *Harper Hall*
B.A., Ohio State University.

arjorie B. Woodford, *Assistant Treasurer* — *Harper Hall*
B.A., Pomona College; M.A., Columbia University.

ank H. Taylor, *Assistant Controller* — *Harper Hall*
B.S., University of Southern California.

harles M. Crawford, Jr., *Assistant to the Treasurer* — *Harper Hall*

orton C. Johnson, *Alumni Secretary* — *212 Sumner Hall*
B.A., Pomona College.

enneth E. Overaker, *Director of the News Bureau* — *200 Sumner Hall*

nes M. Johnson, *Executive Secretary to the President* — *204 Sumner Hall*

orothy G. Metzger, *Director of Residence Halls* — *Mudd Hall*
B.S., Iowa State College.

ucille Gramse McCarthy, *Director of Dining Halls* — *Frary Hall*
B.S., M.S., Kansas State College of Applied Science.

eorge W. Conn, *Campus Engineer* — *303 E. First St.*
B.S., Bradley University.

The Faculty

Date denotes beginning of original term of service

ADMINISTRATIVE OFFICERS

ELIJAH WILSON LYON — 345 North College Av
President, 1941.
B.A., University of Mississippi; B.A., and B. Litt., University of Oxford; Ph.D., Universi of Chicago; LL.D., Colgate University; Litt. D., Occidental College; L.H.D., Trini College.

FRANCIS RAYMOND IREDELL — 1060 College Av
Dean of the Faculty, and Professor of Philosophy on the Robert C. Denison Foundation, 1925.
B.A., Pomona College; M.A., Ph.D., Harvard University.

J. EDWARD SANDERS — 310 Radcliffe Dri
Dean of Students and Dean of Admissions, 1942.
B.A., Hendrix College; M.A., Ph.D., Columbia University.

SHELTON L. BEATTY — 741 Dartmouth Av
Dean of Men, 1949.
B.A., University of Tennessee; M.A., Cornell University; Ph.D., Stanford University

JEAN B. WALTON — 147 E. Twelfth S
Dean of Women on the Martha N. Hathaway Foundation, 1949.
B.A., Swarthmore College; M.A., Brown University; Ph.D., University of Pennsylvani

WILLIAM L. WHEATON[3] — 328 Oakdale D
Associate Dean of Admissions, 1949.
B.A., Pomona College; M.A., New York University.

HERBERT B. SMITH — 414 Elder D
Assistant Dean of Admissions, 1957-58; Assistant Professor of History, 1952.
B.A., M.A., University of Iowa; Ph.D., University of California.

MASAGO ARMSTRONG — 4003 N. Garey Ave., La Ver
Registrar, 1955
B.A., M.A., Stanford University.

DAVID W. DAVIES — 524 W. Tenth S
Librarian, 1947.
B.A., University of California at Los Angeles; M.A., University of California; Ph.I University of Chicago.

JULIAN G. MICHEL
Associate Librarian, 1957.
B.A., Loyola University, New Orleans; M.A., Ph.D., Tulane University; Docteur l'Université, University of Paris; B.L.S., University of California, Berkeley.

INA T. NIDER, *Social Director, Women's Campus* — *Harwood Cou*
B.A., Fresno State College; M.A., Columbia University.

GILBERT S. COLTRIN — 333 Radcliffe D
Physician of the Associated Colleges, 1940.
B.A., Pomona College; M.D., University of Rochester. Interne, Resident in Medici University of California Hospital; Fellow in Urology, Presbyterian Hospital, New Yo City; Exchange Fellow in Physiology, University of Kiel, Germany.

. Scott Fox 1390 Via Zurita
Assistant Physician of the Associated Colleges, 1952.
B.S., Ph.D., Cornell University; M.D., Stanford University.

. Robert Rankin 645 N. College Ave.
Chaplain of Associated Colleges Church, 1951.
B.A., State University of Iowa; B.D., M.A., Yale University.

EMERITI

alter Alfred Allen 175 E. Twelfth St.
Emeritus Professor of Musical Theory and Appreciation, 1912.
B.A., Beloit College; B.Mus., Yale University. Associate, American Guild of Organists.

ay Erwin Baber
Emeritus Professor of Sociology, 1939.
B.A., Campbell College; M.A., Ph.D., University of Wisconsin.

race Ella Berry 353 W. Eleventh St.
Emeritus Dean of Women and Associate Professor of Mathematics, 1909.
B.S., M.A., Mount Holyoke College.

mes White Crowell 450 University Circle
Emeritus Professor of Romance Languages, 1929.
B.S., M.A., Haverford College; Ph.D., Cornell University.

obert Sidney Ellis 1237 Dartmouth Ave.
Emeritus Professor of Psychology, 1931.
B.A., University of Arkansas; Ph.D., Clark University.

ernard Capen Ewer 706 Indian Hill Blvd.
Emeritus Professor of Psychology, 1916.
B.A., M.A., Brown University; Ph.D., Harvard University.

arion Jeanette Ewing 455 W. Seventh St.
Emeritus Assistant Librarian, 1912.
B.A., Olivet College; B.S., Simmons College; M.A., Boston University.

harles Tabor Fitts 445 Harrison Ave.
Emeritus Professor of Education, 1919.
B.A., Amherst College; M.A., University of California. Graduate study, Harvard University.

olvin Heath 750 Indian Hill Blvd.
Emeritus Associate Professor of Physical Education for Men, 1922.
B.A., Pomona College; M.A., Stanford University.

illiam Atwood Hilton 1293 Dartmouth Ave.
Emeritus Professor of Zoology, 1905.
B.S., Ph.D., Cornell University.

nest E. Jones 905 College Ave.
Treasurer Emeritus, 1909.
B.A., Pomona College.

vril Jurecka 163 W. Eleventh St.
Emeritus Assistant Professor of Art, 1932.
Graduate, Imperial and Royal College of Sculpture, Horice, Bohemia.

WILLIAM KIRK — 705 Indian Hill Blv
Emeritus Professor of Sociology, 1922.
B.A., Ph.D., Johns Hopkins University.

ELLIOTT CURTIS LINCOLN — 472 W. Tenth S
Emeritus Professor of English, 1924.
B.A., Colby College; M.A., State College of Washington and Harvard University.

BRUCE MCCULLEY — 335 Harvard Av
Emeritus Professor of English Literature, 1921.
B.A., Hiram College; M.A., University of Chicago; Ph.D., Harvard University.

EUGENE WHITE NIXON — 1351 Tulane R
Emeritus Professor of Physical Education for Men, 1916.
B.A., Monmouth College; M.A., Columbia University. Graduate study, Illinois a
California Universities.

BENJAMIN DAVID SCOTT
Emeritus Professor of Public Address, 1923.
B.A., University of Southern California; S.T.B., Ph.D., Boston University. Gradua
work, Brown and Harvard Universities.

GEORGE STEDMAN SUMNER — 245 N. College Av
Emeritus Professor of Economics and Sociology, 1897.
Controller, 1922-1941.
B.A., Pomona College; B.A., Ph.D., Yale University.

EMILIE ELIZABETH WAGNER — 783 W. Tenth S
Emeritus Associate Professor of German, 1928.
B.A., Smith College; M.A., Pennsylvania State College. Doctorate de l'Universi
mention Lettres, Toulouse.

WALTER TICKNOR WHITNEY — 710 W. Ninth S
Emeritus Professor of Astronomy, 1929.
B.S., M.S., Pomona College; Ph.D., University of Chicago.

ALFRED OSWALD WOODFORD — 760 W. Ninth S
Emeritus Professor of Geology, 1915.
B.A., Pomona College; Ph.D., University of California.

PROFESSORS

CARL BAUMANN — 567 W. Eighth S
Professor of German, 1931.
Ph.D., University of Basel.

GRAHAM B. BELL — 448 S. College Ave
Professor of Psychology, 1956.
B.A., Wesleyan University; M.A., Ph.D., Northwestern University.

LYMAN BENSON[3] — 1430 Via Zurit
Professor of Botany on the Henry Kirke White Bent Foundation, 1944.
B.A., M.A., Ph.D., Stanford University.

FLOYD A. BOND — 706 Santa Clara Ave
Professor of Economics on the Stedman-Sumner Foundation, 1948.
B.A., M.A., Ph.D., University of Michigan.

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Professor of English, 1944.
B.S., Oregon State College; M.A., Ph.D., University of California.

'EN SHOU-YI 769 W. Ninth St.
Professor of Chinese Culture, 1941.
B.A., Lingnan University; Ph.D., University of Chicago; Fellow of the Academia Sinica.

ROLD DAVIS 612 W. Tenth St.
Professor of English on the Phebe Estelle Spalding Foundation, 1927.
B.A., Stanford University; B.A. and B. Litt., University of Oxford.

NNETH G. FISKE 585 W. Twelfth St.
Professor of Music, 1936.
B.Mus., M.Mus., American Conservatory of Music. Pupil of Leon Sametini, Jacques Gordon, Otokar Sevcik.

ARLES A. FOWLER, JR. 256 E. Second St.
Professor of Physics on the Seeley W. Mudd Foundation, 1947.
B.A., M.S., University of Utah; Ph.D., University of California.

VARD MONTGOMERY FRYER 231 W. Tenth St.
Professor of Physics, 1946.
B.A., Pomona College; M.E., Ph.D., Stanford University.

N HOWES GLEASON 512 Baughman Ave.
Professor of History on the Warren Finney Day Memorial Foundation, 1939.
B.A., Ph.D., Harvard University; B.Litt., University of Oxford.

GH J. HAMILTON 1269-C Harvard Ave.
Professor of Mathematics, 1936.
B.A., University of California at Los Angeles; M.A., Ph.D., Brown University.

WIN HERMAN HANSCH 4070 Olive Knoll Place
Professor of Chemistry, 1946
B.S., University of Illinois; Ph.D., New York University.

ER HAZELTON
Professor of Religion on the John Knox McLean Foundation, 1957.
B.A., D.D., Amherst College; B.D., Chicago Theological Seminary; M.A., University of Chicago; Ph.D., Yale University.

BERT HERRING 765 Indian Hill Blvd.
Professor of Latin American Civilization, 1945.
B.A., Oberlin College; M.A., Columbia University; Graduate, Union Theological Seminary.

NCIS RAYMOND IREDELL 1060 College Ave.
Professor of Philosophy on the Robert C. Denison Foundation, and Dean of the Faculty, 1925.
B.A., Pomona College; M.A., Ph.D., Harvard University.

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Professor of Mathematics on the Joseph N. Fiske Foundation, 1931.
B.A., B.S., M.A., Ph.D., University of Missouri.

LLIAM THOMAS JONES 4201 Via Padova
Professor of Philosophy, 1938.
B.A., Swarthmore College; B. Litt., University of Oxford; Ph.D., Princeton University.

JOHN HASKELL KEMBLE — 452 West Sixth
Professor of History, 1936.
B.A., Stanford University; M.A., Ph.D., University of California.

GORDON CANFIELD LEE — 1466 Well
Professor of Education, 1948.
B.A., University of California; M.A., Ph.D., Columbia University.

MILES D. MCCARTHY — 444 Harrison
Professor of Zoology, 1946.
B.S., West Chester State Teachers College; Ph.D., University of Pennsylvania.

DONALD B. MCINTYRE — 136 E. Seventh
Professor of Geology, 1954.
B.Sc., Ph.D., D.Sc., University of Edinburgh.

HENRY CORD MEYER — 470 Harrison
Professor of History, 1946.
B.A., University of Colorado; M.A., University of Iowa; Ph.D., Yale University.

FREDERICK LUDWIG MULHAUSER, JR. — 424 W. Eleventh
Professor of English, 1941.
B.A., College of Wooster; M.A., Ph.D., Yale University.

WILLIS E. PEQUEGNAT — 433 Harrison
Professor of Zoology on the Willard George Halstead Foundation, 1940.
B.A., University of California; Ph.D., University of California at Los Angeles.

LOUIS B. PERRY — 2929 Claremont Hts.
Professor of Economics, 1947.
B.A., M.A., Ph.D., University of California at Los Angeles.

EDWIN ALLEN PHILLIPS — 146 E. Twelfth
Professor of Botany, 1948.
B.A., Colgate University; M.A., Ph.D., University of Michigan.

WILLIAM F. RUSSELL — 202 N. College
Professor of Music, 1951.
B.A., Columbia University; M.A., Harvard University.

DWIGHT LEONARD RYERSON — 107 E. San
Professor of Zoology, 1946.
B.A., M.S., University of Arizona; Ph.D., University of California at Los Angeles.

ALVIN HEWITT SCAFF — 1102½ Amherst
Professor of Sociology, 1947.
B.A., University of Texas; B.D., Chicago Theological Seminary; M.A., Ph.D., Univ of Texas.

R. NELSON SMITH — 115 Brown
Professor of Chemistry, 1945.
B.A., Pomona College; M.A., Ph.D., Stanford University.

ERNEST ALBERT STRATHMANN — 160 W. Eleventh
Professor of English, 1932.
B.A., M.A., Ph.D., Johns Hopkins University.

BERT LOBINGIER STREHLE — 1019 Dartmouth Ave.
Professor of Physical Education for Men, 1923.
B.A., Pomona College; M.A., Claremont Graduate School; Graduate study, University of Southern California, University of California, Stanford University.

IN ALBERT VIEG — 910 Oxford Ave.
Professor of Government, 1945.
B.A., St. Olaf College; M.A., University of Iowa; Ph.D., University of Chicago.

YMOUR W. WURFEL
Professor of Military Science and Tactics, 1957.
B.A., Pomona College; LL.B., Harvard University; J.D., Emory University; Command and General Staff College. Colonel, Judge Advocate Corps, U.S. Army.

ASSOCIATE PROFESSORS

RGINIA PRINCEHOUSE ALLEN — 175 E. Twelfth St.
Associate Professor of Dramatics, 1930.
B.A., Pomona College; Graduate study, Department of Drama, Yale University; M.A., Claremont Graduate School.

ILLIAM G. BLANCHARD — 1495 Via Zurita
Associate Professor of Music and College Organist, 1936.
B.Mus., DePauw University; M.Mus., University of Michigan. Further study with Carl Weinrich and Hugh Porter in organ and with Seth Bingham in composition.

RRY JOSEPH CARROLL, JR. — 243 N. Alexander Ave.
Associate Professor of Classics on the Edwin Clarence Norton Foundation, 1948.
B.A., University of Akron; M.A., Ph.D., Harvard University.

IZABETH CAWTHORNE — 758 Baylor St.
Associate Professor of Physical Education for Women, 1935.
B.A., M.A., University of California.

RYL DAYTON — 262 W. Sixth St.
Associate Professor of Music, 1938.
B.Mus., Oberlin College; Graduate study in Berlin and New York with Artur Schnabel, Leonard Shure, Dalies Frantz, and Guy Maier.

RTON HENKE — 121 Brown Drive
Associate Professor of Physics, 1948.
B.A., Miami University; M.A., Ph.D., California Institute of Technology.

ARLES SHIVELEY HOLMES — 1010 Berkeley Ave.
Associate Professor of English, 1941.
B.A., Oberlin College; Ph.D., Princeton University.

ETCHEN GRAF JORDAN — 638 E. Sixth St.
Associate Professor of English, 1947.
B.A., M.A., Ohio State University; Ph.D., University of California at Los Angeles.

BERT F. LEGGEWIE[2] — 240 Annapolis Dr.
Associate Professor of Romance Languages, 1951.
B.S., Loyola University; M.A., University of Southern California; A.M., Ph.D., Harvard University.

EARL JAY MERRITT 641 Harvard Av
Associate Professor of Physical Education, 1925.
B.A., Pomona College; M.A., Claremont Graduate School.

GERHARD OERTEL 122 E. Seventh S
Associate Professor of Geology, 1956.
Studied at University of Graz, Austria; Ph.D., and Privatdozent, University of Bon Germany.

PETER HOWARD SELZ 320 Harvard Av
Associate Professor of Art, 1955.
M.A., Ph.D., University of Chicago.

JOHN SEWALL SHELTON 1100 Oxford Av
Associate Professor of Geology, 1946.
B.A., Pomona College; Ph.D., Yale University.

ELMER B. TOLSTED 337 W. Fifth S
Associate Professor of Mathematics, 1947.
B.S., M.S., University of Chicago; Ph.D., Brown University.

EDWARD WEISMILLER[3] 510 W. Tenth S
Associate Professor of English, 1949.
B.A., D.Litt., Cornell College; M.A., Harvard University; D.Phil., University of Oxfo

ASSISTANT PROFESSORS

C. FREEMAN ALLEN 121 W. Sixth S
Assistant Professor of Chemistry, 1954.
B.S., University of California at Berkeley; Ph.D., University of Wisconsin.

YOST U. AMREIN[3] 456 Harrison Av
Assistant Professor of Zoology, 1951.
B.A., M.A., Ph.D., University of California at Los Angeles.

WILLIAM B. ARCE 137 N. College Av
Assistant Professor of Physical Education for Men, 1956.
B.A., M.A., Ed.D., Stanford University.

HERBERT L. BAIRD
Assistant Professor of Romance Languages, 1957.
B.A., Pomona College; M.A., Ph.D., University of Chicago.

HARRY V. BALL 132 E. Seventh S
Assistant Professor of Sociology, 1956.
B.A., M.A., Washington University; Ph.D., University of Minnesota.

MARGERY SMITH BRIGGS 4549 Live Oak D
Assistant Professor of Music, 1943.
B.Mus., B.Mus.Ed., M.Mus., Chicago Musical College.

HUGH E. CAHILL 127 E. Eighth S
Assistant Professor of Psychology, 1956.
B.A., Brown University; Ph.D., Yale University.

DON W. CHABOT 379 S. College Av
Assistant Professor of Military Science and Tactics, 1955.
B.A., San Francisco State College; Graduate, Infantry School. First Lieutenant, U Army.

ORNE D. COOK 830 Harvard Ave.
Assistant Professor of Economics, 1954.
B.A., M.A., Ph.D., University of Michigan.

ENNETH L. COOKE
Assistant Professor of Mathematics, 1957.
B.A., Pomona College; M.A., Ph.D., Stanford University.

NN LINDSTAEDT COPPLE 205 W. Cucamonga Ave.
Assistant Professor of French, 1953.
B.A., Wellesley College; M.A., University of Wisconsin; Ph.D., Northwestern University.

ILLIAM L. FAUST 1100 Harvard Ave.
Assistant Professor of Psychology, 1953.
B.A., M.A., Ph.D., Stanford University.

OUSTON I. FLOURNOY
Assistant Professor of Government, 1957.
B.A., Cornell University; M.A., Ph.D., Princeton University.

Y FRAZER 1102 North College Ave.
Assistant Professor of English, 1952.
B.A., Pomona College; M.A., Ph.D., University of California.

ARTIN E. FULLER 120 W. Seventh St.
Assistant Professor of Chemistry, 1956.
B.S., University of California at Los Angeles; Ph.D., Massachusetts Institute of Technology.

HERESA ZEZZOS FULTON 46 N. Los Robles Ave., Pasadena
Assistant Professor of Art, 1954.
B.A., Wellesley College; Ph.D., Radcliffe College.

MES E. GRANT 676 W. Ninth St.
Assistant Professor of Art, 1950.
B. E., M.F.A., University of Southern California; Student at Jepson Art Institute.

ORDON D. KAUFMAN 467 Baughman Ave.
Assistant Professor of Religion on the Nancy M. Lyon Foundation, 1953.
B.A., Bethel College; M.A., Northwestern University; B.D., Ph.D., Yale University.

ARL GEORGE KOHN 698 Colorado St.
Assistant Professor of Music, 1950.
B.A., M.A., Harvard University.

NCENT H. LEARNIHAN[3] 220 W. Tenth St.
Assistant Professor of History, 1949.
B.A., M.A., Ph.D., University of California at Los Angeles.

CHARD N. LOUCKS 176 W. Oak Park Dr.
Assistant Professor of Music, 1948.
B.A., Pomona College; M.A. and Doctoral Candidate, Eastman School of Music.

DWARD W. MALAN 118 Oak Park Dr.
Assistant Professor of Physical Education for Men, 1950.
B.A., Pomona College; M.A., Claremont Graduate School; Graduate Student, University of California at Los Angeles.

OWARD H. MARTIN 642 N. College Ave.
Assistant Professor of Speech, 1956.
B.S., M.A., Ph.D., Northwestern University.

GUSTAVE MATHIEU
Assistant Professor of German, 1957.
B.S., M.A., Ph.D., Columbia University.

LEE CAMERON MCDONALD 1129 Dartmouth
Assistant Professor of Government, 1952.
B.A., Pomona College; M.A., University of California at Los Angeles; Ph.D., Ha
University.

JACK C. MILLER 134½ W. Secon
Assistant Professor of Physics, 1952.
B.A., Pomona College; M.A., University of California; D.Phil., University of O

WILLIAM C. OLSON 338 Harvard
Assistant Professor of Government, 1953.
B.A., University of Denver; M.A., Ph.D., Yale University.

GERHARD N. ROSTVOLD 448 Springfiel
Assistant Professor of Economics, 1952.
B.A., M.A., Ph.D., Stanford University.

PAUL MCRAE ROUTLY 408 W. Thir
Assistant Professor of Astronomy on the Frank P. Brackett Foundation, and Di of the Observatory, 1954.
B.Sc., M.Sc., McGill University; M.A., Ph.D., Princeton University.

DOROTHY SEMENOW
Assistant Professor of Chemistry, 1956.
B.A., Mount Holyoke College; Ph.D., California Institute of Technology.

HERBERT B. SMITH 414 Elde
Assistant Professor of History, 1952.
B.A., M.A., University of Iowa; Ph.D., University of California.

FREDERICK SONTAG 642 N. College
Assistant Professor of Philosophy, 1952.
B.A., Stanford University; M.A., Ph.D., Yale University.

HOWARD THOMAS YOUNG 1269-A Harvard
Assistant Professor of Romance Languages, 1954.
B.S., M.A., and Ph.D., Columbia University.

INSTRUCTORS

MORTON O. BECKNER
Instructor in Philosophy, 1957.
B.A., University of California at Santa Barbara; M.A., doctoral candidate, Col
University.

ELIZABETH BRUCHHOLZ
Instructor in History, 1957.
B.A., Pomona College; M.A., University of California at Berkeley.

EDMUND H. CREETH 117 E. Seven
Instructor in English, 1956.
B.A., M.A., Ph.D., University of California, Berkeley.

BERT S. DAVIS 443 W. Tenth St.
Instructor in English, 1956.
B.A., Indiana University; M.A., doctoral candidate, Claremont Graduate School.

ORGE T. FORRESTER 330 W. Sixth St.
Instructor in Speech and Drama, 1956.
B.S., College of the City of New York; M.A., University of Southern California.

DMASANI J. GALLUP
Instructor in Zoology, 1957.
B.A., University of Madras; M.A., Oberlin College.

ILLIAM MANSFIELD HILL
Instructor in Art History, jointly appointed with Scripps College, 1957.
B.A., San Jose State College; M.A. and doctoral candidate, University of California at Berkeley.

IN FRANCIS KEOGH
Instructor in Physical Education for Men, 1957.
B.A., Pomona College; M.A., Claremont Graduate School; doctoral candidate, University of California at Los Angeles.

IARLES M. LESLIE 346 Harvard Ave.
Instructor in Sociology and Anthropology, 1956.
B.A., M.A., doctoral candidate, University of Chicago.

AN M. MAEYS
Instructor in Physical Education for Women, 1957.
B.A., Washington University, St. Louis; M.A., New York University; Graduate Study, University of California at Los Angeles.

ORTON J. MILLS
Instructor in Physical Education for Men, 1957.
B.S., Illinois State Normal University; graduate student, Los Angeles State College.

ONARD C. PRONKO
Instructor in Romance Languages, 1957.
B.A., Drury College; M.A., Washington University; Ph.D., Tulane University.

EODORE R. ROSCHÉ
Instructor in Religion, 1957.
B.A., Park College; B.D. and doctoral candidate, Union Theological Seminary.

ELEN M. SMITH[3] 120 W. Third St.
Instructor in Violin, 1949.
B.A., Pomona College.

BERT G. SPIEGELMAN
Instructor in Economics, 1957.
B.S., University of California at Berkeley; doctoral candidate, Columbia University.

LY ANNE TAYLOR 567 W. Eight St.
Instructor in Physical Education for Women, 1950.
B.A., Pomona College; M.A., Stanford University; Graduate work, University of Southern California.

STEPHEN S. TILLETT 1269B Harvard Av
Instructor in Botany, 1957.
B.S., M.S., Utah State Agricultural College; doctoral candidate, Claremont Gradua School.

LECTURER

MARGARET GAY DAVIES 395 Bonnie Ave., Pasade
Lecturer in History, 1952.
B.A., M.A., Ph.D., Radcliffe College.

PART-TIME FACULTY

KALMAN BLOCH 3914 Franklin Ave., Los Angel
Clarinet
First Clarinetist, Los Angeles Philharmonic Orchestra.

JOHN M. CHRISTIE 134 E. Seventh S
Geology.
B.Sc., Ph.D., University of Edinburgh, Scotland.

THELMA NEFT GELLER 3726 Lynoak Dr., La Ver
Oboe
Graduate, Curtis Institute of Music. Formerly oboist with the Pittsburgh Symphor Orchestra.

LEWIS L. GRIMM 220 W. Bonnie Brae Court, Ontar
Engineering Drawing
B.S., California Institute of Technology; M.A., Claremont Graduate School.

FREDERICK H. HAMMERSLEY 671 S. Rampart, Los Angel
Painting
Student, Chouinard Art Institute; Ecole des Beaux Arts, Paris; Jepson Art Institute.

MARGOT JEAN 272 S. Almont, Beverly Hil
Violoncello
Pupil of Jacob at the Royal Conservatoire in Brussels.

WALTER E. NIILUS 224 Hawthorne Dr., Ontar
Russian
Mag. phil., Tartu University, Estonia.

JEAN PILON 8415 Sanger Ave., Whitti
Voice
B.A., M.A., Chicago Musical College.

RALPH S. PYLE 4136 Lowell Ave., La Crescen
French Horn
B.A., M.A., New York University; French Horn, Los Angeles Philharmonic Orchestr

EDGAR F. RACEY, JR.
English
B.A., Ohio State University; M.A., Stanford University; doctoral candidate, Claremo Graduate School.

OROTHY REMSEN — 137 N. Serrano, Los Angeles
Harp
Harpist, Los Angeles Philharmonic Orchestra.

ENNETH E. RICHARDSON
English
B.A., Westmont College; M.A. and doctoral candidate, Claremont Graduate School.

AVID R. SMITH
English
B.A., Pomona College; M.A. and doctoral candidate, Claremont Graduate School.

OGER STEVENS — 1677 E. Mountain St., Pasadena
Flute
Flutist, Los Angeles Philharmonic Orchestra.

EORGE H. TYLER — 140 E. Twelfth St.
Brass Instruments
Formerly first trumpet with Los Angeles Philharmonic Orchestra.

GOT WARING — 8364 Melrose Ave., Los Angeles
Sculpture
Studied at Washington University, Cranbrook Academy of Art, and Atelier de Sculpture.

EMBERS OF THE CLAREMONT GRADUATE SCHOOL FACULTY OFFERING COURSES IN POMONA COLLEGE

MES D. CALDERWOOD
Professor of International Economics
B. Com., London School of Economics; Ph. D., Ohio State University.

ERWIN CARLQUIST
Assistant Professor of Botany
B.A., doctoral candidate, University of California at Berkeley.

LEROY DAVIDSON
Professor of the History of Art
B.A., Harvard University, M.A., New York University, Ph.D., Yale University

WIN S. FUSSELL
Associate Professor of English and American Literature.
B.A., Pomona College; M.A., Ph.D., Harvard University.

RRILL R. GOODALL
Associate Professor of Asian Studies and Government
B.A., M.A., University of California; Ph.D., Johns Hopkins University

CIL Y. LANG
Associate Professor of English Literature
B.A., M.A., Duke University; M.A., Ph.D., Harvard University.

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sent on leave, first semester, 1957-58.
sent on leave, second semester, 1957-58.
sent on leave 1957-58.

FACULTY COMMITTEES 1957-58

First person named is the Committee Chairman

Administration—President, Dean of the Faculty, McCarthy, Strathma Sanders, Carroll, Hansch, Meyer.

Admission—Sanders, Armstrong, Frazer, Herbert Smith, Fryer, Kaufman

Athletic Council—Strehle, Jaeger, Phillips, three student representatives, a two alumni representatives.

Pomona College Representatives on the Southern California Intercollegi Athletic Conference—Jaeger, Strehle.

Classification—Iredell, Armstrong, Fiske, Lee, McDonald, Ryerson.

College Life Council—Olson, Russell, Sanders, Walton, Faust, Beatty, You and nine student members. An elected chairman.

Courses of Study—Iredell, Graham Bell, Bond, Fowler, Gleason, Phill Jones, Hansch, Holmes, Leggewie, McIntyre, Sanders, Selz, Vi Hazelton.

English—Scaff, Freeman Allen, Hamilton, McDonald, Holmes.

Honors—Holmes, Cook, Gleason, Kohn, Routly, Kemble.

International Relations—Olson, Meyer, Scaff, Young, Mathieu.

Library—Mulhauser, Bond, Davies, Dayton, Fryer, Hansch, Jones.

Personnel—Beatty, Freeman Allen, Arce, Armstrong, Ball, Graham B Nider, Sanders, Taylor, Walton, and four student representatives selec by the Executive Council of the Associated Students.

Pre-Law—Bond, Frazer, Gleason, Flournoy.

Pre-Medical—McCarthy, Coltrin, Hansch, Ryerson, Tolsted, Young.

Public Events—Iredell, Bond, Vieg, Leggewie, Nelson Smith, Selz.

Religious Activities—Hazelton, Kaufman, Blanchard, McDonald, Mil Rankin, Perry, Herbert Smith.

Scholarships and Student Aid—Sanders, Walton, Loucks, Malan, Co Beatty, Nelson Smith, Sontag.

Student Affairs—Sanders, Beatty, Jaeger, Lee, Mulhauser, Walton, Perry, R vold, and four members of the Executive Council of the Associated S dents.

Vocational Counselling and Placement—Beatty, Cawthorne, Faust, Gr Leggewie, Loucks, Pequegnat, Rostvold, Routly, Strehle.

The College

Pomona College is an independent, privately endowed, coeducational institution of arts and sciences. Originally established in 1887 to serve its immediate region, the college now enjoys ıpport from every section of the United States. Enrollment is reıicted to approximately one thousand students, divided equally ıong the four classes.

The purpose of the college is to awaken the minds and develop ıe personalities of its students so that they may attain full growth ɔth as individuals and as responsible members of a democratic ɔciety.

Pomona College was incorporated on October 14, 1887, by a group : early settlers who wanted to see in Southern California a "Chrisan College of the New England type." Under the leadership of ıe Reverend Charles B. Sumner, a devoted and self-sacrificing roup were appointed members of the first Board of Trustees by the eneral Association of Congregational Churches of Southern alifornia. The original trustees were: Henry K. W. Bent, Nathan *I*. Blanchard, Anson Brunson, Elwood Cooper, James T. Ford, ımes H. Harwood, Dexter D. Hill, Theodore C. Hunt, George W. larston, John K. McLean, Henry A. Palmer, Seth Richards, Charles . Sheldon, Charles B. Sumner, and Andrew J. Wells. These hristian pioneers, deeply committed to religious, political, and ɔnomic freedom, founded a college dedicated to the pursuit of uth.

Instruction was begun in September, 1888, in a small rented ɔuse in the city of Pomona. The following January an unfinished otel (now Sumner Hall) in nearby Claremont, together with ɔnsiderable land adjacent, was given to the College and the work as transferred to that place. Although this location was originally garded as temporary, Claremont later became the permanent ome of the College. By that time, however, the name of "Pomona ollege" had become so definitely fixed to the institution that it was tained, notwithstanding the location.

The College met a need for higher education in Southern Cali-ɔrnia, and after the initial years its growth was constant. The first lass was graduated in 1894, at which time the total number of

college students was forty-seven. The preparatory department, esse tial in the beginning, was discontinued in 1910.

With the freedom characteristic of Congregational organizatio Pomona was soon entrusted with its own government and in 19 was freed from any organic association with the church of its origi Today the Board of Trustees is a self-perpetuating body, free fro ecclesiastical control, but pledged under its charter to mainta the institution as truly Christian, though nonsectarian.

Pomona is a liberal arts college, which affords a full academ program in the social sciences, the natural sciences, and t humanities. The curriculum is planned to give a comprehensi understanding of man and the universe in which he lives, rath than technical training in highly specialized fields. The College b lieves that the best preparation for life is liberal education, and aspires thus to train men and women for leadership in the profe sions, in business, and in civic affairs.

Pomona believes that a college should be a genuine communi in which faculty and students meet easily and frequently and st dents live, eat, and work together on the campus. To this end, t College maintains a large faculty in relation to its student bo (during 1957-58 there will be approximately one faculty member f every ten students) and provides one of the finest groups of dorm tories and dining halls in the country. The residential organizatio of undergraduate life at Pomona is one of the most importa features of the total educational program.

The College owes the development of the campus and the grow of its financial resources to the generosity of patrons, friends, a alumni. As an independent institution, without assistance from a governmental or church body, Pomona must rely upon gifts f the expansion of its program and for the increase of its endowmen upon which depends the financial strength of the college. Fro the contributions of her benefactors, the total assets of Pomona a now over $20,000,000, of which $11,500,000 is in endowment.

THE ASSOCIATED COLLEGES

Pomona College is the original institution in a group of fi Associated Colleges, of which the other members are Claremo College, Scripps College, Claremont Men's College, and Harv Mudd College. Although each college is autonomous and ind

endently controlled by its own Board of Trustees, the five institu-ons cooperate in their academic programs and in use of certain ommon facilities.

The group, which represents a combination of English and merican practices, arose from the desire of Pomona College to aintain for itself the advantages of a small college and at the me time to provide at Claremont an educational opportunity for e increasing numbers of young men and women who at the end f World War I were seeking admission to the College.

Under the leadership of the Pomona trustees, the institution now corporated as Claremont College was established on October 14, 925, for the inauguration of the new plan. It assumed the respon-bility of acting as a central coordinating agency, the direction f graduate instruction for the Associated Colleges, and the founda-on of new institutions as they might be required. Claremont ollege conducts its instructional program under the name of "The laremont Graduate School," and the presidents of the under-raduate colleges, in addition to their duties in their respective olleges, serve in rotation for one year terms as head of Clare-ont College, with the title of Provost. In addition to its own ppointees the faculty of the Claremont Graduate School includes ost members of the four undergraduate faculties.

An early objective of the group plan was the establishment of a ollege for women. In September, 1927, Scripps College, named in onor of Miss Ellen Browning Scripps, whose generosity and vision ade it possible, was opened as a residence college for 225 women. rom the beginning the main feature of its curriculum has been a nified sequence of courses in the humanities.

Claremont Men's College, the third undergraduate institution, as established in 1946 as a liberal arts college training particularly r business and public administration. The College has developed sidence and academic facilities for 350 students.

Harvey Mudd College, named in honor of the beloved late Presi-ent of the Board of Fellows of Claremont College, was incorpor-ted as the fourth undergraduate college in 1956. The college, which ill offer a program in basic science and engineering, will begin struction in September, 1957.

The five colleges cooperate in their academic programs and thus fford for their students many of the advantages of a univer-ty center. The undergraduate colleges open their classes without

tuition charges to students in the other undergraduate institution Selected courses in the Claremont Graduate School are open t seniors in the undergraduate colleges.

The colleges maintain a common business office and a join health service which includes the full time services of two physician and the operation of a thoroughly up-to-date infirmary. Bridge Auditorium, which seats 2600, is administered by Claremont Colleg for the group.

CLAREMONT

One of Pomona's greatest assets is the town of Claremont, a pleasan residential community of 10,000 which has grown up around th college. Although Pomona College students enjoy in Claremont th relative quiet of a small academic community, they are in no sens isolated from the life of Southern California, for the College is onl four miles from Pomona, a city of over 50,000 inhabitants, an thirty-five miles from Los Angeles, with which it has hourly bus con nections. Claremont is on the main line of the Santa Fe Railway and the transcontinental lines of the Union Pacific and th Southern Pacific pass through the city of Pomona. A convenient ai service, with connections to Los Angeles, is available at the Ontari airport, only seven miles from the campus.

The Campus

Pomona College occupies about one hundred and twenty acres, of which sixty are included in Blanchard Park, the gift of Nathan W. Blanchard, about ten in Alumni Athletic Field, nd fifty in the campus proper. The College centers on Marston)uadrangle, built and endowed by George W. Marston, 1850-1946, listinguished citizen of San Diego, an original trustee of Pomona nd for many years president of the board.

The twenty-eight buildings on the campus are heated from a entral plant which serves the four colleges.

ADMINISTRATIVE AND GENERAL ACADEMIC BUILDINGS

Mary L. Sumner Hall, a hotel which in 1889 became the original uilding of the college, was removed from its first site in 1922, emodeled for administrative and faculty uses, and named in nemory of the wife of Rev. Charles B. Sumner, LL.D., one of the ounders of Pomona College.

Holmes Hall, the first academic building erected by the college n 1893, is a memorial to Cyrus W. Holmes, Jr., of Monson, Massa-husetts. Reconstructed in 1916, it is now devoted to recitation ooms, departmental offices, and an auditorium seating 750.

The Andrew Carnegie Building, a gift of Mr. Carnegie, which erved as the College Library from its construction in 1908 to June, 952, was remodeled in 1952, for use as a classroom and office uilding for the Social Sciences.

The Associated Colleges maintain a joint Business Office in Harper Hall, constructed in 1931.

ART AND MUSIC BUILDINGS

Rembrandt Hall, built in 1914, is devoted to the Department of Art. The upper floor contains studio and work rooms; the lower loor two galleries, one of which was added in 1937.

The Gladys Montgomery Art Center, named for Mrs. Victor Montgomery of the Board of Trustees, which will be ready for ccupancy in February, 1958, will greatly amplify our art facilities y providing sculpture studios, a lecture hall, exhibition galleries, nd departmental offices.

The Mabel Shaw Bridges Hall of Music, given by Mr. and Mr Appleton S. Bridges of San Diego in 1915, in memory of thei daughter who died while a student at Pomona College, offer excellent facilities for the study of music. It contains, in additio to private studios, an unusually beautiful auditorium seating 80

The Mabel Shaw Bridges Auditorium, also the gift of Mr. an Mrs. Appleton S. Bridges in memory of their daughter, was con structed in 1931. It has a seating capacity of 2600, and is adminis tered by Claremont College on behalf of the Associated College

The Open-Air Theatre, built in 1910, is located in Blanchard Park

SCIENCE BUILDINGS

Pearsons Hall of Science, the gift of Dr. D. K. Pearsons in 189 contains the laboratories and lecture rooms of the Departments o Physics and Mathematics.

Construction of a physics-mathematics building costing one mil lion dollars will begin in the spring of 1957, and this new classroom and laboratory building will be placed in use in September, 1958.

The Frank P. Brackett Observatory, the gift of Mr. Llewelly Bixby, '01, has served the Department of Astronomy since 1908.

The Seaver Laboratory, a separate building in the Observator area, was completed in 1950. The dome houses the Clara Whitne Shatto Reflector Telescope, and the main floor contains classroom and a library.

Harwood Hall, given in 1915 by Mr. A. P. Harwood, contain lecture rooms and laboratories for the use of the Department o Psychology.

The Mason Hall of Chemistry, the gift of Mr. W. S. Maso in 1922, provides ample facilities for the study of Chemistry, an also houses the Department of Geology.

The Crookshank Hall of Zoology, given in 1922 by Dr. D. C Crookshank, is occupied by the Departments of Botany and Zoology

HONNOLD LIBRARY

The Honnold Library, which was given by Mr. and Mrs. Willian L. Honnold to Claremont College for the Associated College since 1952 has housed the Pomona College Library along with th libraries of Claremont Men's College, the Claremont Graduat School, a part of the Scripps College Library, and since 1956 th library of Harvey Mudd College.

PHYSICAL EDUCATION AND ATHLETIC FACILITIES

The War Memorial Gymnasium, given to the college by students, alumni, trustees, and friends, commemorates the men and women of Pomona College who gave their lives in World War I and World War II. Completed in December, 1950, the building includes an excellent basketball court with seats for 1200 spectators, a classroom, a memorial library, staff offices, and commodious shower and locker rooms.

The Memorial Training Quarters, constructed in 1922 as a memorial to the men of Pomona College who lost their lives in World War I, has been incorporated as the east wing of the new Memorial Gymnasium. It represents the gift of the parents of one of these men, Sheldon Gerry, '17, supplemented by the gifts of alumni, students, and friends.

A swimming pool, of the standard size for water polo, and fully equipped with modern appliances, is open to both men and women for instruction and recreation throughout the year.

Alumni Field, consisting of about ten acres, has been developed by the alumni into athletic grounds unsurpassed in the Southwest in beauty of setting. First-class tennis courts, an excellent track, baseball and football fields, also hockey and basketball courts are within the limits of the campus. A ticket booth, wall and gate to Alumni Field were built in the autumn of 1950, as a gift of the class of 1916.

Athearn Field, given in memory of the late Fred G. Athearn by a group of his business friends, which will be constructed in the summer of 1957 on land east of Clark Hall, will provide touch football and softball fields, tennis and handball courts, and other recreational athletic facilities for the men's campus.

The William Renwick Gymnasium, named in memory of an early donor to the college, was first erected as a military barracks in World War I. It provides general facilities for the women's department of physical education.

RESIDENCE AND DINING HALLS FOR MEN

Helen R. Walker Hall, the gift of Helen R. Walker of Glendale, California, was opened for use in 1953. Its rooms, grouped around three courtyards, accommodate 108 men. Walker Hall also includes a lounge and reception room for the entire men's campus.

The Eli P. Clark residence unit for men, erected in 1929, include three dormitories with accommodations for 278 students.

The Albert K. Smiley Hall, the first dormitory for men, built i 1908, accommodates sixty-nine students.

Edwin C. Norton Hall, constructed in 1956 in memory of the lat Edwin C. Norton, first faculty member and first Dean at Pomona contains thirty-six single rooms.

Lucien H. Frary Dining Hall for Men, given by Mr. George W Marston in 1929 in memory of Rev. Lucien H. Frary, a Truste from 1892 to 1903, seats 375 in the main hall and includes thre smaller dining rooms for special uses.

RESIDENCE AND DINING HALLS FOR WOMEN

Harwood Court, constructed in 1921 and named in memory of Mrs Charles E. Harwood, also includes Strong Hall. It accommodate 180 women.

Florence Carrier Blaisdell Hall, erected in 1936 and named i honor of Mrs. James A. Blaisdell, wife of the fourth President o the College, houses 120 women.

Della Mulock Mudd Hall, which honors the wife of the lat Seeley W. Mudd, a Trustee of Pomona, was completed in th spring of 1947. The building has accommodations for 100 women most of them in single rooms.

The College also maintains three smaller residences for women Baldwin House, the Maison Française for students majoring i French, and the German House for students majoring in German

Beautiful and commodious dining facilities are available for al women students. Residents of Harwood Court are served by th Aurelia Squier Harwood Memorial Dining Hall built in 1931.

The Mary McLean Olney Dining Hall, constructed in 1936, ha accommodations for 120 students.

Jessie E. Gibson Dining Hall, built in 1949 in honor of the forme Dean of Women, serves the students living in Blaisdell Hall an Mudd Hall.

EDMUNDS UNION

The Charles K. Edmunds and Katharine P. Edmunds Studen Union, which honors the late fifth President of the College and hi wife, provides a social center for all students and an attractiv ballroom in which all formal dances are held. This building, mad

possible by the gifts of many parents, supplemented by funds from the Associated Students and the bequest of the late Florence Riley, was built in 1937 and houses student offices, including publications, the manager's office, and the Cooperative Store.

The east wing of Edmunds Union, which houses the fountain and sandwich facilities, and also includes a full basement for recreational use, was completed in January, 1951.

HEALTH FACILITIES

Memorial Infirmary, given in 1931 in memory of Colonel Seeley W. Mudd, is administered by Claremont College and is operated jointly for the benefit of students in all the Associated Colleges at Claremont. Twenty beds are available. The Infirmary is situated on Amherst Avenue, north of Foothill Boulevard.

The Baxter Medical Building, the gift of Doctor and Mrs. George E. Baxter to Claremont College, serves the students of the Associated Colleges. It provides an office where the College Physicians and a nurse are available for consultation and treatment for minor ailments.

OTHER FACILITIES

The President's House at 345 North College Avenue was the gift of Dr. D. K. Pearsons. It was constructed in 1897, and has been the home of all Presidents of the College since that time.

A replica of the original house in Pomona in which the College first opened in September, 1888, was erected on the campus in 1937 through the generosity of an anonymous donor.

The College operates its own independent deep well water supply, the gift of Edward P. and Mary G. Bosbyshell.

THE FACULTY HOUSE

Pomona shares with the other associated colleges the beautiful Faculty House which the late Harvey S. Mudd and Mrs. Mudd and the Seeley W. Mudd Foundation gave to Claremont College for the use of the faculties of all the colleges at Claremont. Located just south of the Honnold Library, the Faculty House provides an ideal meeting and recreational center for faculty groups.

THE CLAREMONT INN

The Claremont Inn, beautifully located on College Avenue opposite the campus since 1906, is the guest house of the colleges and community, and is owned by Pomona College. Parents and friends are invited to use the facilities of the Inn for longer or shorter periods during visits to Claremont. Public and private dining rooms and accommodations for sixty guests under both the American and European plans are provided.

Admission

STUDENTS ARE ADMITTED to Pomona College upon evidence which satisfies the Committee on Admissions that: (1) the applicant possesses the necessary preparation and ability to carry successfully the academic program offered here, and will actually use them to that end; (2) the College, with its program and traditions, and the applicant, with his capacities, interests and needs, are mutually well suited to each other.

It is not possible to state a minimum record which will insure admission as the college generally has more qualified applicants than available space. In the selection of students academic achievement and promise are primary factors but the Committee makes every effort to take into account character and special aptitudes and skills. The final decision is based on the judgment of the applicant as a person rather than on narrowly technical requirements.

Any person interested in preparing for Pomona, or any school official who is responsible for directing the preparatory programs of students is invited to call on the Dean of Admissions at any time regarding the acceptability of candidates or for advice on specific programs.

For further information, write to Office of Admissions, Sumner Hall, Pomona College, Claremont, California.

ADMISSION TO FRESHMAN STANDING

The College does not require any particular pattern of secondary school courses, but assumes candidates will have taken a college preparatory course. Under ordinary circumstances they are advised to complete at least three years of satisfactory study in English. Two years of mathematics are advised for all candidates. Those who plan to study mathematics or the physical sciences in college should have at least three years or more, including trigonometry. (See page 5.) Foreign language credit is not required for admission but for concentration in many fields a reading knowledge of at least one foreign language is essential. It is much to the advantage of a student to begin the acquisition of this knowledge before entering college and this is strongly advised. Two or three years in social studies and two or three in sciences are also advised. The major attention is given to the quality of preparation rather than to the exact arrangement of subjects.

It is normally assumed that candidates will have received a high school diploma. Students from foreign countries or those who are following unusual patterns of preparation may submit other evidences of their readiness to undertake college work.

All candidates are required to take the Scholastic Aptitude Test administered by the College Entrance Examination Board. (See page 34 for further information.) This requirement does not lessen the importance of the school record, the personal ratings and personal interviews.

Students who request college credit for honors courses taken in high school are required to submit scores on the Advanced Placement Tests given by the College Entrance Board. The decision as to whether or not credit will be allowed will be made by the Classification Committee and reported at the time of registration.

It is recommended that applications be filed at the beginning of the senior year in high school. The Scholastic Aptitude Test should be taken either in December, January, or February, and the candidate is responsible for registering for this with the College Entrance Board. The regular selection of new students will be made from applications received on or before March 1, provided candidates have taken the Scholastic Aptitude Test in February or earlier.

Since there are more applicants than can be accepted, the Committee attempts to select the strongest candidates with little regard to the chronological order in which applications are received. In all cases admission is granted subject to evidence of satisfactory physical condition on the part of the candidate.

ADMISSION TO ADVANCED STANDING

In considering applications for advanced standing the College follows the general policy used for freshman candidates. It requires an official transcript, or transcripts, of all college work for which the applicant has been previously registered. These transcripts must show the detailed record in all secondary as well as all collegiate institutions attended. The College further requires honorable dismissal from the previously attended institution together with recommendations from the proper college officials. In addition all candidates are required to submit scores on the Scholastic Aptitude Test given by the College Entrance Examination Board. It is not necessary to repeat the test if it was taken during the Senior year in secondary school.

The Malcolm Eversole Court in Clark Hall

The Frank R. Seaver Astronomical Lab

Credit allowed for work taken in other institutions will be etermined by the Classification Committee after the candidate has :en accepted.

ADMISSION TO SPECIAL CLASSIFICATION

lature students, particularly those equipped for advanced studies, ıay be admitted as special students to courses for which, by ability ıd preparation, they may be fitted. Special students are not candiates for a degree, though students admitted to this classification ıay be accepted later as candidates for a degree.

COMBINED PLAN WITH CALIFORNIA INSTITUTE OF TECHNOLOGY

long with several other liberal arts colleges, Pomona has an rrangement with the California Institute of Technology whereby ualified students may receive the Bachelor of Arts degree from omona and a Bachelor of Science degree from the California Instiıte of Technology after a combined five-year program, of which the rst three years are taken at Pomona. Without the combined plan at ast six years would usually be required to complete the work for oth degrees. Students under the combined plan will be accepted at ıe California Institute of Technology without examination if recomıended by Pomona. For detailed program see page 75.

APPLICATION PROCEDURE

pplication for admission to Pomona College must be made on ıe form furnished by the college and all credentials must be filed ith the Committee on Admissions. The forms and credentials :quired are:

Application Form I. Including $10.00 fee, which is not refundable. Make checks or money orders payable to Pomona College.

Two Personal Rating Scales, Form II. Confidential reports by the principal or other school official, and by a classroom teacher, sent by them to the Committee on Admissions.

A Statement of Qualifications. The Committee seeks the most complete possible picture of each candidate and to this end requires a personal, autobiographical statement to supplement the other information. Some or all of the following points may be discussed although the candidate need not consider this an outline to be followed: (1) your preparation or background

for college other than that which will be evident from you school record; (2) your major aptitudes and interests either an academic or non-academic nature; (3) your purposes going to college; (4) your particular reasons for choosin Pomona College. It is permissible to discuss the paper wit others but the writing, both as to ideas and the form in whic they are expressed, must be the candidate's. The statement may b typed. The length should not exceed 1,000 words.

4. *Official Transcript* of high school record to date. At the time selection of candidates, work in progress will be considered fulfillment of requirements, and admission will be grante subject to the filing of a final transcript showing the satisfactor completion of all secondary school work. The transcript for ordinarily used by the school is satisfactory. It should include a interpretation of the grading system. It should not be sent unt the first half of the senior year has been completed.

5. *Medical Certificate,* signed by a licensed M.D., on a form fu nished by the college after admission has been granted pr visionally. The college reserves the right to reject students f health reasons.

6. *Room Deposit* of $50 due within thirty days of date of accep ance. No refund of the room deposit will be made if a stude withdraws before entrance. (See page 38 for regulations co cerning the refund of this deposit.)

   Failure to make this payment results in the cancelling admission. Candidates on the alternate list for whom places a not provided will have the entire deposit refunded.

SCHOLASTIC APTITUDE TEST

All candidates for admission to Pomona College are required take the Scholastic Aptitude Test administered by the Colle Entrance Examination Board and are held responsible for makin application to the Board. Students who plan to enter in Septemb should take the test in December, January, or February. Studen who plan to enter in February should take it in May, August December. Either of the three dates is equally satisfactory. Freshme are not admitted in February.

The College Entrance Examination Board will hold five con

lete series of examinations in 1957-58. Application to take an xamination must be filed three weeks in advance of the examina-on date. The schedule for the examinations with the dates of egistration is as follows:

)ate of Tests	*Regular Registration Closes*	*Late Registration Closes*
)ecember 7, 1957	November 16, 1957	November 30, 1957
anuary 11, 1958	December 14, 1957	January 4, 1958
'ebruary 8, 1958	January 18, 1958	February 1, 1958
Iarch 15, 1958	February 22, 1958	March 8, 1958
Iay 17, 1958	April 26, 1958	May 10, 1958
ugust 13, 1958	July 23, 1958	August 6, 1958

The above dates apply to centers on the North American ontinent. There is a penalty fee of $3.00 for late registrants.

For admission to Pomona College applicants are required to take ie Scholastic Aptitude Test only. It is not necessary to take the chievement Tests.

Copies of the Bulletin of Information may be obtained without harge from the College Entrance Examination Board. The Bulle-n contains rules regarding applications, fees and reports; rules for ie conduct of the tests; advice to candidates; descriptions of the sts; sample questions; and lists of examination centers.

Candidates must secure application forms from the College En-ance Examination Board and file completed forms, accompanied y the examination fee of $6.00, at one of the offices described below. possible, applications should be filed several weeks in advance of ie closing date for regular registration for an examination.

Students who wish to take the examinations in any one of the llowing western states, territories, and Pacific areas: Arizona, alifornia, Colorado, Idaho, Montana, Nevada, New Mexico, regon, Utah, Washington, Wyoming, Alaska, Hawaii, Mexico, lberta, British Columbia, Australia, and all Pacific islands includ-g Formosa and Japan, should address their inquiries and send eir applications to College Entrance Examination Board, P. O. ox 9896, Los Feliz Station, Los Angeles 27, California.

All others should write to College Entrance Examination Board, . O. Box 592, Princeton, New Jersey.

Expenses

THE EDUCATIONAL and general expense of operating the Colleg is defrayed by payments from students, income from endow ment funds, and gifts from alumni, friends, and corporation The budget for 1957-58 provides for an expenditure of $1734 pe student. Of this amount, approximately $950 will be paid by th student in tuition and fees, and $784 must be provided from endow ment income and gifts.

The College reserves the right to change any of the following fe at any time should conditions make it necessary.

General Fees

TUITION, including health service, season tickets for Artist Course and Athletic Events	per semester	$450.(
ASSOCIATED STUDENT DUES	per semester	10.(
GRADUATION FEE		10.(

Residence Fees

ROOM AND BOARD	per semester	$387.5
In Clark Hall a few rooms with fireplaces are available for men, for which the charge is $410.50 per semester.		
ROOM DEPOSIT, applicable on payment of bills for final semester of residence. (See pages 34, 38.)		50.(

Departmental Fees

For exact fees in science and music see Courses of Instruction.

LABORATORY FEES	$ 2.00 to 10.00
LABORATORY BREAKAGE DEPOSITS	4.00 to 10.00
FEES FOR APPLIED MUSIC	25.00 to 70.00
PRACTICE FEES, APPLIED MUSIC	2.50 to 15.00

Fees for Special Privileges

LATE REGISTRATION (See page 87.)	$2.00 to 10.00
CHANGE OF PROGRAM (See page 87.)	3.00
SPECIAL EXAMINATIONS	2.00
CAMPUS FEE FOR AUTOMOBILES (See page 66.)	2.00 to 4.00

Fees for Part-time Students

SPECIAL TUITION FOR STUDENTS CARRYING LESS THAN TEN UNITS OF WORK	per unit $45.00
AUDITOR'S FEE	per course $10.00

RESIDENCE FOR MEN

The College is equipped with residence and dining halls to accommodate its students. It is expected that single men not actually living at home will room and dine in college halls. Admission is offered on this assumption unless an exception is made in the statement offering admission. Other exceptions to this regulation may be granted by the Dean of Men, but ordinarily only for medical reasons or for others of comparable importance.

All the residence halls have both single and double rooms. Students living at home or working for board or room may make special arrangements with the Dean of Men.

Residential campus privileges are provided only on the basis of an inclusive charge varying according to location of room and including board. The standard charge on the men's campus is $387.50 per semester, but a few rooms with fireplaces are available at $410.50. These charges include necessary furniture, rugs, bed linen and towels, the laundering of the same and the care of rooms. Linens will be changed and beds made in all halls once a week. On the remaining days men will make their own beds. The only articles to be furnished by the students are blankets, spreads for single beds, and study lamps.

The College has no housing for married students.

RESIDENCE FOR WOMEN

Women students are expected to room in residence halls and board at college dining rooms. Freshmen are normally assigned to Harwood Court. Students living at home or working for room or board may make special arrangements with the Dean of Women.

Harwood Court, Blaisdell Hall, and the three College Houses have both single and double rooms, as well as suites. Except for a few double rooms, single accommodations are provided in Mudd Hall. Each room is adequately furnished; the only articles to be provided by the student are linen, blankets, and spread for a single bed. Residential campus privileges are provided on the basis of an inclusive charge of $387.50 per semester.

RESIDENCE REGULATIONS

The residence privilege does not include the use of rooms duri vacation periods. The residence halls are open for new stude the Friday before the opening of the college year and for returni students the day of registration. The residence and boarding pri leges end 24 hours after the last examination at the end of ea semester for all students except seniors and those asked by t college to remain through Commencement. The residence a dining halls are closed the day after Commencement.

Each student is required to make a deposit of $50 for a room the dormitory. This deposit is held by the College until the studen graduation or withdrawal from residence. Any outstanding charg for damage to college property will be deducted from this depos and any remainder will be refunded at the time of graduation. F a student who withdraws from residence before graduation, t room deposit, less any damage charges, will be refunded provided has been in residence for one semester or more and gives notice withdrawal not less than sixty days before the opening of the ter for which he is withdrawing.

The College reserves the right to dismiss from a residence h without rebate of room rent and to withdraw dining hall privileg in the case of any student who becomes an undesirable occupa

The College may dispose of any articles left by students for mo than six months.

BILLS

All college bills are due each semester in advance and must paid by the student at the time of registration. Students wishing arrange for payment by installments should confer with the Bur before entering, preferably in the summer preceding registrati

A service charge for deferment will be made as follows:

First semester

Balance payable on or before November 1	$1.50
Balance payable one-half November 1 and one-half December 1	2.25
Balance payable one-third November 1, one-third December 1, and one-third January 1	3.00

econd semester

Balance payable on or before March 1	1.50
Balance payable one-half March 1, one-half April 1	2.25
Balance payable one-third March 1, one-third April 1, and one-third May 1	3.00

It is expected that payment of installments will be made on or efore due dates; failure to do so without the approval of the Bursar ill result in an additional service charge. A student whose bills are ill unpaid at the end of any semester may not register for the fol- owing semester until he has arranged for their payment with the usiness Office.

No refunds are made to those leaving before the end of the mester except that in the case of those leaving before the middle of ie semester because of illness one-half of the tuition and laboratory es are refunded and in the case of those dropping out for good use within a week of their registration all but $25.00 is returned. lo refund is made on a room payment unless the room is re-rented o someone not then rooming in a college residence hall.

Students with unpaid bills are not given honorable dismissal or raduated. Seniors must settle all college bills and library obliga- ons by four p.m. of the fourth day preceding Commencement if ey are to receive their diplomas with their class.

Scholarships and Student Aid

The college offers an extensive scholarship and student ai program and approximately $185,000 will be available t Pomona students for scholarships, fellowships, grants-in-aic and prizes during 1957-58. These funds are derived from endow ments for scholarships and student aid, from individual and corpora tion donations, and from the annual Alumni Fund.

Pomona College has adopted, with certain other West Coast col leges and universities, a joint policy aimed at achieving uniformit and equity in the distribution of scholarship funds to entering stu dents. All these institutions make a distinction between 1) recogni tion of academic honor and achievement, and 2) recognition of nee for financial assistance. Honors at Entrance are awarded solely i recognition of distinguished academic achievement. They ar awarded without regard to need and carry no monetary grant. N special application is required for Honors at Entrance because al high ranking candidates for admissions are considered for thes awards.

Scholarship grants are awarded to students who achieve outstand ing records and who need financial assistance to attend college. I making awards the Committee on Scholarships considers the cand date's promise in intellectual fields, his force of character and phys ical vigor, his probable interest in different aspects of the colleg community, and his leadership qualities. These factors determin the selection of those to receive scholarships, but the size of th stipend will be determined entirely in accordance with need.

Scholarship grants available to entering students include bot four-year and one-year scholarships. In awarding a four-year scholar ship to a student the college agrees to give financial assistance t him if needed throughout his college course provided he maintain a satisfactory record. The four-year awards are reviewed annuall with attention being given to the student's participation in and cor tribution to the college community as well as to his academic recor The amount of the stipend will be determined each year on the basi of the financial situation at that time. Recipients of one-year scholar ships may apply for scholarships in succeeding years. Scholarship are available for matriculated students in greater number than fo

ıtering students. They are awarded in open competition on the asis of the work in college.

Entering students in need of assistance should complete by March , 1958, an application for admission, and should submit, also by larch 1, on forms provided by the college, a financial statement to ıe College Scholarship Service. This service, established by the ollege Entrance Examination Board in 1954 on a nation-wide basis, ollects from parents or guardians information relating to the finan- ial resources of scholarship applicants, and sends copies to the col- ges and universities to which applicants are applying for scholar- ıip grants.

SCHOLARSHIPS FOR ENTERING STUDENTS

FOUR-YEAR SCHOLARSHIPS

Alumni Four-Year Scholarships: Five or more scholarships will be awarded om the Alumni Scholarship Fund with stipends which may go as high as 1,000 annually according to financial need. These scholarships are awarded ot only on the basis of the academic record but also on the all around contri- ution to the life of the secondary school and community, and the promise of ıch contribution in college and afterwards. Open to men or women students.

George F. Baker Four-Year Scholarships: Pomona is one of twelve colleges) receive grants from the George F. Baker Trust of New York, for the urpose of awarding scholarships to outstanding young men. The plan of ıe Baker Trust is to seek out future leaders of American society and to ıake it financially possible for them to attend college. Four or more scholar- ıips will be awarded with stipends which may go as high as $1250 annually, ccording to financial need. Open to men students only.

The Canfield Foundation Scholarships: The Canfield Foundation has made vailable $4,000 for scholarships for women students from Los Angeles County ıtering Pomona College in September, 1957. These scholarships will be con- nued through the full undergraduate course subject to the approval of the cholarship Committee and the Foundation.

Maria K. Lloyd Scholarship: This four-year scholarship is available to an utstanding candidate who is now a resident and citizen of Greece or Turkey. he amount of the award will be determined by the student's need. It may ver as much as all college expenses for the full four years.

Lockheed Scholarships: The Lockheed Aircraft Corporation has established Pomona a four-year scholarship for students concentrating in a subject pplicable to a career in the aircraft manufacturing industry. Such fields of oncentration may be either in the sciences or the social sciences. Lockheed cholarships include full tuition and $500 a year toward other college expenses.

The Frank H. Merrill Memorial Scholarship: A four-year scholarship, to b awarded to a student whose interest is primarily in the field of science, in cludes full tiution of $900 plus as much as $500 a year toward other colleg expenses. This scholarship has been established by Mr. Willis H. Merrill, '3 in memory of his father.

Pacific Employers Insurance Company Scholarships: A four-year scholarshi in each entering class, for a young man planning to enter any field of busines has been established at Pomona College by the Pacific Employers Insuranc Company. Stipends are based on financial need and may be as much as $100 annually.

The Texas Company Scholarships: The Texas Company has established four-year scholarship at Pomona College for a man student in each enterin class who has selected a curriculum preparing him for a career in the petroleur industry. Applicants must be United States citizens, must be in the uppe third of their graduating classes, must show financial need, and must sho evidence of good health and physical fitness. The scholarship covers tuitio and the cost of books and fees.

The Union Carbide Scholarships: Pomona College is one of a group c institutions participating in a nationwide scholarship plan established in 195 by the Union Carbide and Carbon Corporation. These scholarships ar designed to give aid to promising men and women who have an ambition t follow careers in business or industry. Three scholarships covering the com plete cost of tuition for the full four-year academic course, with a reasonabl allowance for necessary books and required fees, are available in each enterin class at Pomona. Applicants must have good scholastic standing, be recom mended by their schools, and either need financial assistance or possess extrao dinary talent or ability.

ONE-YEAR SCHOLARSHIPS

A number of scholarships are available to candidates for admissio to the freshman class in the year 1958-59. Half of the stipend is avail able in the first semester and half in the second semester of th freshman year. The award for the second semester is normally mad only if the recipient is in good standing, and has maintained a scholastic record of B or better. The stipends for all scholarships wil be determined according to financial need, and may be as much a $1,200. These scholarships are provided by the income from th following funds:

The Henry E. Storrs and Julia A. Storrs Scholarship fund of $25,000 (ope to men).

The Margaret Burton Harwood Scholarship fund of $50,025.

The Thomas J. Dowling Scholarship fund of $10,000.

The Henry G. Brainerd and Fannie Howard Brainerd Memorial Scholarship fund of $24,835.

In addition, the following special scholarships are also available candidates entering college in September, 1958:

California Scholarship Federation Award: A scholarship with maximum pend of $900 given by Pomona College to a man or woman nominated by e California Scholarship Federation.

Chemistry Contest Scholarship: A scholarship with maximum stipend of oo is offered by Pomona College to a winner in the annual High School ntest sponsored by the Southern California Section of the American Chemil Society. The recipient must be among the top fifteen contestants, and must isfy all entrance requirements of the College.

The Physics Contest Scholarship: A scholarship with maximum stipend of oo is offered by Pomona College to a winner in the annual High School ntest sponsored by the Southern California Section of the American Assotion of Physics Teachers. The recipient must be among the top fifteen ntestants, and must satisfy all entrance requirements of the College.

JUNIOR COLLEGE SCHOLARSHIPS

he scholarships listed below are available for candidates from nior college, for the year 1958-59, half of the stipend being avail-le in the first semester and half in the second semester of the ar. The award for the second semester is made only if the recipient in good standing and has maintained a scholastic record of B or tter. Candidates for Junior College scholarships are required to ke the Scholastic Aptitude Test given by the College Entrance ard. For further information see pages 30 and 32 in this catalog. he following scholarships are reserved specifically for applicants om Junior College. In addition, applicants from Junior College ay also be considered for awards listed under General Scholarships.

Two-Year Scholarships: One or more, with maximum stipend $1000.

One-Year Scholarships: Two or more awards with maximum stipend of ,000 each.

Alpha Gamma Sigma Scholarship: One award with maximum stipend of oo given by Pomona College to a candidate who is recommended by Alpha amma Sigma.

GENERAL SCHOLARSHIPS

The following scholarships are open to both entering and matricu lated students at Pomona College.

The Donald Houghton Bacon Scholarship: The parents of Donald H Bacon, who died at the college in 1948, have established in his memory $5000 scholarship fund, the income of which provides an annual award to deserving student who prepared for college at the Tucson, Arizona, Hig School, and who is recommended by the Superintendent of Schools i Tucson. If in any year no graduate of the Tucson High School is recon mended for the award, it may be made to a senior student at Pomona Co lege, who upon recommendation of the faculty is considered the outstandin member of his class with respect to excellence in class work, athletic abilit and general participation in campus activities.

The Olivia D. Baker Scholarship: The Olivia D. Baker Scholarship has bee established in memory of Mrs. Olivia Dennison Baker. The scholarship is ope to students of a minority race with preference given to negro candidates. Th amount of the award will be determined by the student's need, up to $1,00 annually. It is open either to men or women, to freshmen or transfer student

The Winifred Smith Buxton Scholarship: Winifred Smith Buxton, a men ber of the class of 1899, has established a scholarship fund of $9,303, the incom from which is to be awarded annually to a worthy student at Pomona Colleg

The George Curtis De Garmo Scholarship: The late George Curtis D Garmo of Los Angeles has established a scholarship fund of $15,000 at Pom na College, the income from which is available annually to a worthy studen

Executives' Secretaries, Inc., Pomona Valley Chapter Scholarship: An awar of $800 provided by the Pomona Valley Chapter of Executives' Secretarie Inc. is available to a woman student in any class at Pomona College who neec financial assistance in her college education. A student looking toward a bus ness or professional career is preferred, but the selection of the recipient sha rest with the Scholarship Committee of Pomona College.

The William C. Free and Mazy Bell Free Scholarships: The late Mr William C. Free of Pasadena has established a trust fund from which a income of approximately $8,000 per year is available to Pomona College fc the awarding of scholarships to students in any of the four classes. One c these scholarships is reserved for a student concentrating in music.

The A. L. Hobson Memorial Scholarship: A scholarship of $630 open to man student from Ventura County, California, who needs financial assistan to attend college. The recipient may be a member of any class at Pomona.

The Paul Mylrea Holden Scholarship: The late Mrs. Susie Mylrea Holde has established at Pomona College a scholarship fund of $10,000 in memo of her son, the income from which is available annually to students who nee financial help.

The James Irvine Scholarships: A scholarship fund of $60,000 has been tablished by the James Irvine Foundation, the income from which will be ;ed to assist both men and women students at Pomona College in paying .eir tuition, board, lodging, and other expenses incidental to their education the College. These scholarships are limited to students residing in the ;ate of California, preference to be given to those in Orange County.

The Kemper Foundation Scholarship: One two-year scholarship of $900 per ;ar is available from the James S. Kemper Foundation for a student who ıtends to enter the field of insurance administration. The scholarship is ;ailable to students entering from Junior College or to students at Pomona ollege at the beginning of the junior year. The foundation will assist the ıcumbent in obtaining vacation employment with a casualty or fire insurance)mpany, and on graduation will assist him in obtaining regular employment : current salary rates with a casualty or fire insurance company, in the ex-ectation that such employment will continue for at least two years. A further rant may be available for a year of post-graduate study.

The Clayton A. and Lottie Culler Langworthy Memorial Scholarships: A holarship fund of $25,957 has been established by the late Mrs. Clayton A. angworthy, the income from which is to be used for the education of worthy)ung persons with ambition and ability who otherwise would have to forego n education.

The John G. Locke Scholarship: A scholarship fund of $5,000 has been stablished by the late John G. Locke of La Jolla, income from which is to be ;ailable to a worthy student at Pomona College.

The George H. Mayr Educational Foundation Scholarships: The George H. Mayr Educational Foundation has made available a scholarship fund of ap-roximately $7,000 per year for the assistance of students from California who eed financial aid to attend Pomona College.

The Amélie Augustine McAlister Scholarships: The late Mrs. Amélie McAlister Upshur of San Marino established at Pomona a fund of $100,000, ıe income from which provides scholarships for women. McAlister Scholar-hips are available to women in any class who need financial assistance to ttend college.

The Elizabeth McIntyre Scholarship: A scholarship fund of $15,000 has een established by the late Miss Elizabeth McIntyre, income from which is ;ailable for scholarships at Pomona College.

The Mississippi Scholarship: An endowed scholarship, with income of pproximately $900 annually, has been established anonymously as a tribute) the donor's native state. Open to a man or woman in any class.

The Faxon More Memorial Scholarships: Two scholarships of $900 each are vailable annually to men students of well rounded interests and promise of eadership. These scholarships were established by Mrs. Mary E. More of Goleta in memory of her son.

The Arthur Noble and Frances W. Noble Scholarship: A scholarship $550, endowed by the late Mr. and Mrs. Arthur Noble, is available annua to a student in any class who needs financial assistance.

The Everett S. Olive Orchestral Scholarship: An annual scholarship of $2 is awarded to a qualified student on the basis of musical ability on an orch tral instrument. It is endowed anonymously in tribute to Everett S. Oli Emeritus Professor of Piano, whose interest has been an important factor the development of the orchestra. It is normally given to a freshman. T scholarship is awarded on the joint recommendation of the Music Departme and the Committee on Scholarships. An audition is normally required.

Orchestral Scholarship: An annual scholarship of $250 to a qualified stude who will continue study of his instrument in the Pomona College Music D partment. Awarded on the basis of musical ability and orchestral competen Will normally be given to a Freshman after audition by the Music Departme

The Walter H. Parsons and Hazen M. Parsons Memorial Scholarship: scholarship of $200 given in memory of Walter H. Parsons, '04, and Haz M. Parsons, '09, is available annually to a man or woman in any class wh needs financial assistance to attend college.

The Clara S. Ratekin Scholarships: The late Mrs. Clara S. Ratekin of Covi has established a fund of $462,452, the income from which is to be used defray the educational expenses of worthy young men and women. The awards are open to students in any class.

The Mabel Wilson Richards Scholarships: The Mabel Wilson Richar Scholarship Fund of Los Angeles has made available scholarship assistance f worthy and needy women students from the metropolitan Los Angeles area.

The Charles Harvey Rodi Memorial Scholarship: A scholarship of $10 established by Mrs. Lucina Rodi Updegraff, is available annually to a ma studying toward a career in medicine. The award is made on the basis ability and need, and may be available to the same student for more tha one year, all at the discretion of the Committee on Scholarships.

The Frank Wilson Stafford and Julian Tate Stafford Scholarship: A m morial scholarship of $800 per year, available to a man in any class, has be established by Mrs. Grace T. Stafford of Pasadena.

Standard Oil Company Scholarships: A scholarship of $750 for a stude in Engineering and Physical Science is made available for the academic ye 1957-58 by the Standard Oil Company of California. Two Standard Oil Lea ership Scholarships of $400 each are available for 1957-58 to students in an undergraduate class, judged according to leadership, financial need, an scholastic rating. No student is eligible for more than one year.

The Union Tribune Charities Scholarships: The Union Tribune Publishin Company of San Diego has established one scholarship of $200 in each of th four classes. A student receiving one of these scholarships for one year ma continue to be a candidate for them in another school year. Preference will b given to students interested in journalism who come from San Diego count but scholarships are open to all students.

SCHOLARSHIPS FOR MATRICULATED STUDENTS

The Scholarships listed below are available during 1957-58 for students who attended the college during 1956-57, and who have satisfied the matriculation requirements. They are not available to entering students. These scholarships are awarded in open competition but normally require a grade point average of approximately 3.4. Half of the stipend is available in the first semester and half in the second semester of the year. The award for the second semester is normally made only if the recipient is in good standing and has maintained a scholastic record of B or better. The degree of financial need is taken into account in the awarding of all scholarships. Applications for these scholarships should reach the committee by May 15.

The Associated Men Students Scholarships: The Associated Men Students of Pomona College offer annually two awards of $100 each. Each award is given to a man student at the end of his Junior year, one to the man who best exemplifies a combination of scholarship with leadership and proficiency in athletics, and the other to the man who best exemplifies a combination of scholarship with leadership and attainment in extracurricular activities. To be considered for either award a man must have maintained at least a B average in all his college work, and must have been in residence at Pomona for at least one year.

The Llewellyn Bixby Memorial Scholarship: A scholarship of $500 available annually to a man or woman who has completed the freshman year in Pomona College and who shows proficiency and genuine interest in science. Given by Mrs. Llewellyn Bixby, '01, in memory of her husband.

The Frank G. Butler Scholarships: A scholarship fund of $80,807 has been established in memory of Frank G. Butler, the income from which is available to sophomores, juniors, or seniors who have achieved scholastic distinction.

The California Bank Scholarship: The California Bank has established a two-year scholarship at Pomona College to assist in his junior and senior years a deserving young man from Southern California who plans to follow a business career after graduation. The recipient will receive $500 in his junior year and $500 in his senior year toward the cost of tuition.

The Douglas Aircraft Company Scholarship: The Douglas Aircraft Company has established a scholarship of $1250 for the academic year 1957-58 to be awarded to a junior at Pomona College enrolled in the combined engineering program with Massachusetts Institute of Technology or the California Institute of Technology.

The Malcolm Eversole Memorial Fund: A scholarship providing full tuition for a man in the Junior Class to be nominated to the Scholarship Committee by the President of the College at the end of the nominee's second

year in Pomona College. The selection is based not on scholastic rank on but on the possession of those personal qualities which indicate a high degr of promise in a student of outstanding character.

The Andrew Fletcher Garst Memorial Scholarship: A sum of $400 will l awarded annually at the beginning of the senior year to a deserving man woman student who has benefitted most from his college experience of thr years and who has also contributed substantially to the life of the colleg The selection of the candidate, whose major should preferably be in mus art, or science will be made by a committee of nine students and the Dea of Men and Women. This award is given annually in memory of Andre Fletcher Garst, a member of the Class of 1952.

The Jessie Gibson Scholarship Fund: An Associated Women Studen Fund for scholarship assistance to women students, named in memory of tl late Dean of Women at Pomona College.

The Haynes Foundation Scholarships: A scholarship of $800 and a tuitio subsistence scholarship of $1300 have been established at Pomona College b the John Randolph Haynes and Dora Haynes Foundation to assist deservir senior students in the Social Sciences. The criteria of award include exce tional scholastic record, character, promise of professional growth, industr and need. It is also desired that the candidates obtain some kind of internsh experience in their chosen fields, or be required to write a special senior thesi In addition to these awards, the Haynes Foundation has made a further gra of $2100 which will be available to advanced students in the Social Scienc for 1957-58.

The Houchin Foundation Scholarship: A fund of $5,000 has been establishe by the late Mr. C. E. Houchin of Bakersfield, income from which is availab to junior or senior students who need financial aid to finish college.

The Kappa Delta Honor Scholarship: An annual scholarship of $70 established in 1926 by alumni members of Kappa Delta Fraternity and admi istered under a special committee, is awarded at the beginning of his seni year to an outstanding all-around man, who shows qualities of characte intellect, leadership, sportsmanship, and proficiency in athletic pursuits. Th recipient must have been in residence during all three lower years, and mu rank in the highest third of all the men in his class.

Bertha Lebus Scholarship: A scholarship of $725 endowed by Miss Bertl Lebus is available annually to a matriculated student attending the colleg The recipient must be a person who shows a high degree of promise an who needs financial assistance.

The Robert McFadden Memorial Scholarship: A scholarship of approx mately $400, available annually to a man student, has been established i memory of Robert McFadden, '37, who was killed in action in World War I

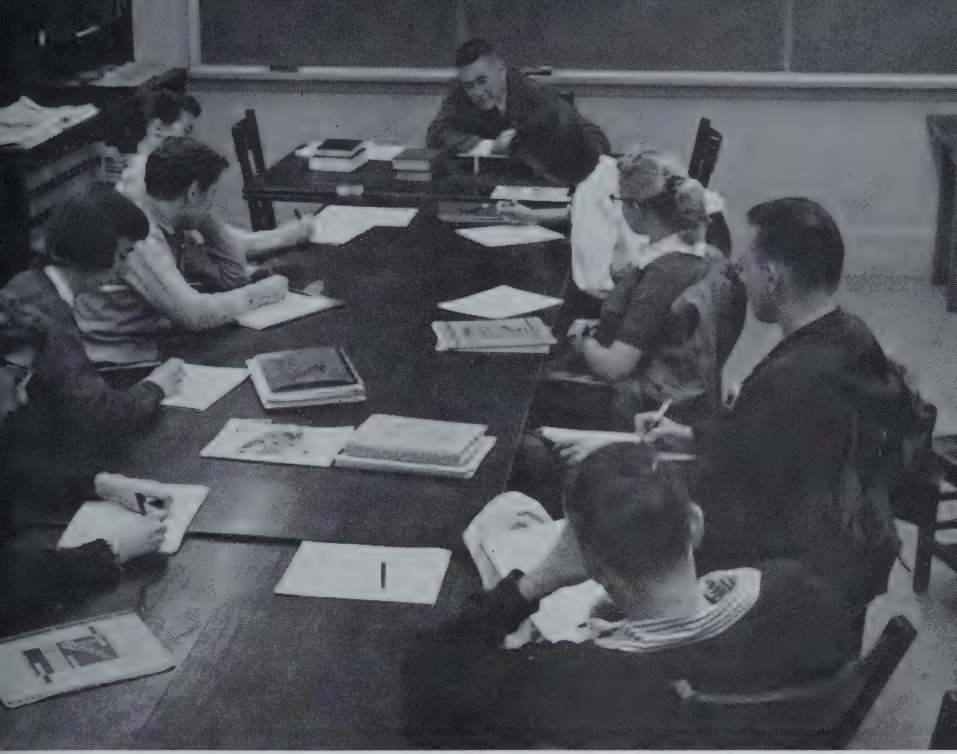
The Blair Nixon Memorial Award: An annual award of $150 is made fro a fund established by his parents and friends in memory of Blair Nixon, '3

College Avenue Runs Through the Campus

No Student Ever Forgets the Snow-Capped Grandeur of Old Baldy

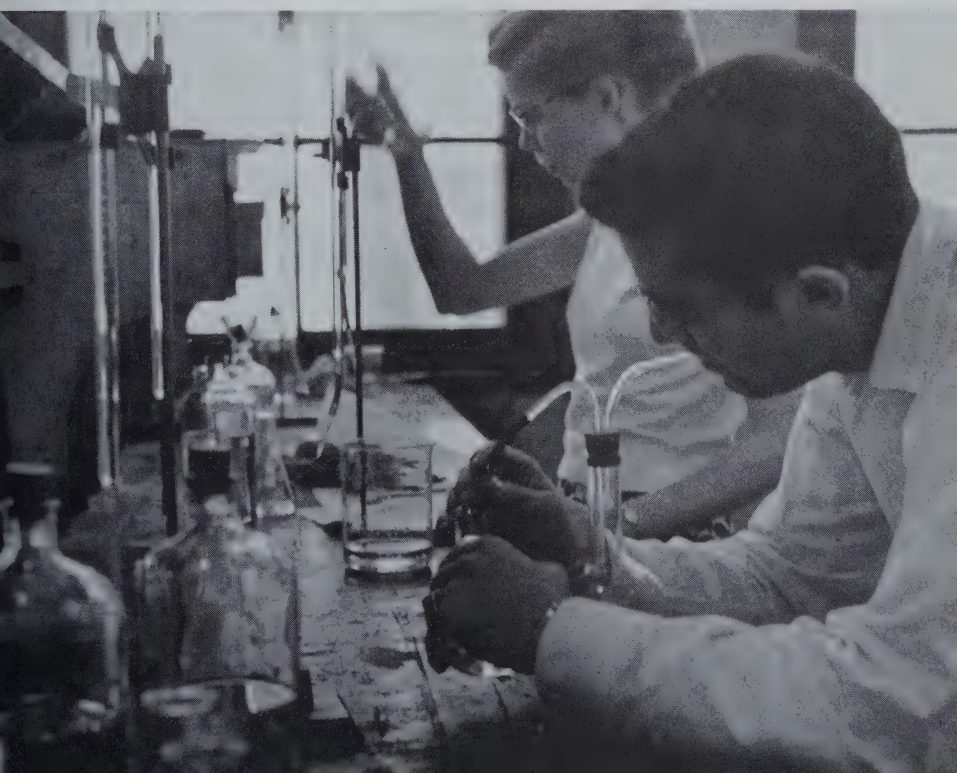
Marston Quadrangle

Holmes Hall and College Gate



Seminar Room in Carnegie Building

Science Has a Prominent Place in the Program at Pomona



A Room in One of Pomona's Three Residences for Women

Patio of Harwood Court—Residence Hall for Women

a senior varsity letter winner who exemplifies the high ideals of the college scholarship and sportsmanship. The award is made on nomination of a ecial committee and is presented to a Pomona man at the beginning of his nior year.

The Nu Alpha Phi Memorial Scholarship: A scholarship of $750 endowed the members of Nu Alpha Phi Fraternity and awarded to a man at the ginning of his junior year. Selection is made by a special committee on the sis of outstanding character and real financial need, the latter partially termined by records of student employment during the school year. Given memory of the Fraternity's losses in World War II.

The Phi Beta Kappa Scholarship: A scholarship of $200 endowed by the mona Chapter of Phi Beta Kappa is awarded at the beginning of the second mester to a senior who has been in residence for three years at Pomona and ho is selected for the high quality of his scholarship and his promise of ture distinction. The award is open to both men and women.

The Flora Sanborn Pitzer Memorial Scholarship: A scholarship of $700 from he Sanborn-Pitzer Foundation, established by Russell K. Pitzer of the class 1900 in memory of his wife, is available to a woman student in the sophoore, junior, or senior class who has shown scholarship ability and who reiires financial assistance to remain in college.

The Alice M. Sanborn Scholarship: A scholarship of $500 annually, dowed by the late Alice M. Sanborn, is available to a man selected by the holarship Committee as a representative student at the college. The candite shall be selected at the beginning of his junior year, and shall receive the holarship for both his junior and senior years, provided he remains worthy continued assistance.

The Olivia Phelps Stokes Scholarships: A scholarship fund of $47,000, inme from which is available to worthy students at Pomona College.

Andrew Acker Sugg Memorial Scholarship: A scholarship of $900 availle annually to a junior or senior man who shows promise of outstanding ork in the field of science. This fund has been established by Mrs. Andrew cker Sugg in memory of her husband.

DEPARTMENTAL SCHOLARSHIPS

ART

The Hannah Tempest Scholarships: Two scholarships of $125 each are varded annually to a man and a woman studying art, in accordance with nditions laid down by the donor, Mrs. Hannah Tempest Jenkins.

ASTRONOMY

The Shatto Memorial Scholarship: A scholarship of $250 is provided nually from the income of the Walter O. Shatto and Clara R. Shatto emorial Funds for a qualified upperclassman or graduate student majoring

in the Department of Astronomy, the candidate to be selected on the jo recommendation of the department and the Scholarship Committee.

ECONOMICS

Crown Zellerbach Foundation Scholarship: A scholarship of $900 for academic year 1957-58 will be given by the Crown Zellerbach Foundation a junior or senior student majoring in the field of Economics.

GEOLOGY

The Richard E. Strehle Memorial Scholarship: A scholarship of $375 est lished in memory of Richard E. Strehle, '41, who was killed in action in Philippines in World War II, is awarded annually to a junior or senior n with the physical, mental and moral qualities desirable in a field geolog Choice is made near the end of the sophomore or junior year, on nominat by the Geology Department to the Scholarship Committee. The award r be withheld in any year, and additional awards may be made in years wh extra income is available.

MATHEMATICS

The J. Carlyle Bryant Scholarship: Established by Mr. and Mrs. Geo W. Bryant in memory of their son, J. Carlyle Bryant, '45. Available to outstanding, all-around man in any class at the college, who possesses qu ties of character, scholarship, and athletic ability, and who is particularly terested in mathematics. The amount of the scholarship varies from $500 $900, depending on the need of the recipient. If there should not be a prop qualified candidate in mathematics, the scholarship may be awarded t student in one of the other physical sciences.

MILITARY

The advanced course of the Reserve Officers' Training Corps consists Military Science III and IV. Students who have completed the basic cou (Military Science I and II) or who are accorded equivalent credit beca of military or naval service are eligible for selection to the advanced cou Students selected for the advanced course enter into an agreement to co plete the two year course and attend one summer training camp of six we duration. In consideration of this agreement, students receive from the Uni States Government cash allowances equivalent to a scholarship of about $320 a year. All necessary expenses in connection with camp, including transp tation to and from the camp, food, housing, uniforms and medical attent are provided by the Government.

Advanced course ROTC students whose attainments in military science outstanding may be designated by the Professor of Military Science a Tactics as "Distinguished Military Students." A number of distinguis military graduates of Senior ROTC Units may be selected upon applicat for direct Regular Army appointments.

The number of students admitted to the advanced course is controlled the needs of the Army and the number recommended by the college authori as being well-qualified to pursue the course. The selection of students enrollment in the advanced course is based upon excellence in military train

nd suitability for appointment as second lieutenants in a branch of the U. . Army Officers' Reserve Corps. Students who present evidence of above verage records while in military or naval service, or who have distinguished ıemselves in the basic ROTC course of this or other schools will receive pecial consideration in the selection of those students to be enrolled in the dvanced course.

MUSIC

The Richard N. Loucks, Jr. Music Scholarship: A scholarship fund of ı5,000 has been established by Mr. Benjamin M. Stansbury, of La Canada, in onor of Richard N. Loucks, Jr., the composer of *Hail, Pomona, Hail.* The ıcome is awarded annually to a student majoring in applied music.

The Kate Condit Memorial Scholarship: A scholarship of $100, endowed by ıe late Mr. and Mrs. A. P. Condit, is awarded annually to an outstanding udent in the Department of Music.

The William J. Howard Memorial Scholarship Fund: Established by umni and friends in memory of William J. Howard, '14. A scholarship of ı50 is awarded annually to a student for lessons in applied music.

The Presser Foundation Scholarships: A fund of $250 is given to the college ınually by the Presser Foundation of Philadelphia, for the assistance of ıusic students. Scholarships from this fund are awarded by the Music epartment to students who are interested in music education or other ad- ınced work in music.

Applied Music Scholarships: Ten awards of $170 each are available for the :ademic year 1957-58 to cover cost of lessons in applied music. These awards e open to students in any class.

PHYSICS

The Richard P. Edmunds Memorial Fund provides a scholarship of full ıition for an upper division man student (preferably one who has attended omona during the first two years) nominated to the Scholarship Committee y the Professor of Physics.

RELIGION

The Claremont Church Scholarship: A scholarship of $250 to be awarded ıch year to an upperclass student planning on life-time Christian service or a senior about to enter seminary training. Choice is made in the spring by e Scholarship Committee upon nomination from the Department of Religion ting in consultation with the minister and a member of the World Service ommittee of the Claremont Church.

FELLOWSHIPS AND SCHOLARSHIPS FOR GRADUATE WORK

The following awards may be made for 1958-59 to graduatir seniors if qualified applicants appear. Applications for these fello ships should be in the hands of the Committee on Scholarships l March 15, 1958 except in the case of the Harsh Fellowship, applic tion for which should be made to the Claremont Graduate Scho

The Henry Martyn Bracken Foundation and the *Emily Robinson Brack Foundation* provide two or more fellowships for graduate work in t Claremont Graduate School. When in any year a graduating senior does r qualify for the award, the stipend may be given to an undergraduate stude in Pomona College.

The C. E. and Bertha M. Harsh Memorial Scholarship Fund in the Cla mont Graduate School provides income for scholarship aid to Pomona C lege graduates. Although the Board of Fellows is empowered to make gra of the income for the assistance of any capable and promising graduates Pomona College attending the Claremont Graduate School, it is the preferer of the donors that first consideration should be given to those who are doi advanced work in the Fine Arts.

The William Lincoln Honnold Foundation provides a fellowship with stipend determined by the committee of award according to individual circu stances. The award is open normally only to graduating Seniors who ha done four full years of work in Pomona College, who are rated in the upp half of the graduating class on the basis of their performance during bo the junior and senior years, and who wish to continue their studies either the Claremont Graduate School or elsewhere in America or abroad.

The prime purpose of the fellowship is to promote original and creat achievement in the candidate's chosen field of activity rather than merely reward faithful classroom work. Preference will be given to candidates p paring for scholarly rather than professional work. The selection will be bas not on scholarship only but on the possession of those personal qualities wh indicate a high degree of promise in a student of outstanding character. T plans for graduate work are to be made in consultation between the candid and the Committee on Scholarships, the committee having final authority.

University of Chicago Law School Scholarship: A scholarship in the Sch of Law at the University of Chicago will be awarded by the Pomona Colle Committee on Scholarships. Stipend is normally $720 and is renewable two years if the student's record is satisfactory.

The Committee on Scholarships also nominates students Pomona College who wish to apply for awards by other institutio and foundations.

CLAREMONT GRADUATE SCHOOL SCHOLARSHIPS

n addition to the awards for graduating seniors offered through omona College, scholarships for graduate study leading to ad-anced degrees are available at the Claremont Graduate School.

General scholarships and fellowships ranging in value from $600) $2,000 are awarded for graduate work in the field of the candi-ate's choice. Several endowed and special scholarships are also vailable. A few graduate assistantships with half tuition in the laremont Graduate School are offered through the undergraduate olleges at Claremont and the Rancho Santa Ana Botanic Garden.

STUDENT AID

n addition to the scholarship awards, the college is able to make ome grants-in-aid available to students doing satisfactory academic ork who require financial assistance to continue at Pomona. To his end the income of certain endowed funds is supplemented by budget appropriation. Normally applications for aid can be onsidered only from students who have completed one year in omona College, who are or intend to become candidates for a egree from Pomona College, who maintain a high standard of onor, who are economical in their habits, who are regular in their ttendance upon college exercises, and who maintain at least C grade n their scholastic work. Recipients of grants-in-aid are expected to arn part of their college expenses by employment during vacations nd term time.

Aid may be withdrawn at any time from students who prove not) have conformed to the conditions.

If a student who has received a grant-in-aid transfers to another nstitution of comparable cost before graduation the total sum ranted him by Pomona College will become a loan, repayable ccording to the terms applicable to regular student loans.

It is customary to extend loans only instead of grants to students ho are in the second semester of the senior year.

All applications for aid should be made to the chairman of the ommittee on Scholarships and Student Aid, Sumner Hall, before lay 15 for the following academic year. Emergency requests for the econd semester should be submitted before January 15 for the econd semester of the current academic year.

STUDENT AID FUNDS

The income from the following funds is available for student aid

The Francis Bancroft Memorial Fund of $1500, given by Mrs. James T Ford in memory of her father.

The L. H. Barrows Fund of $2500.

The H. G. Billings Memorial Fund of $1000.

The Florence G. Bixby Fund of $5000.

The Hagop Bogigian Fund of $31,402.

The Sherlock Bristol Memorial Fund of $400.

The Bessie A. Brown Memorial Fund of $800, given by Mrs. Fannie E Brown.

The Henry Herbert Brown Memorial Fund of $1000 given by Mrs. Fannie E. Brown in memory of her son.

The Perry W. and Estelle H. Clark Fund of $2775.

The Grace C. Cheney Student Aid Fund of $4875.

The Emily Gilbert Cleghorn Memorial Fund of $1000, given by Arthur M Cleghorn, '03, in memory of his wife, the income to be used for the Student Emergency Fund.

The Class of 1918 Fund, $961.

The Charles C. Cragin Memorial Fund of $5025, given by Mrs. Laura E. Cragin in memory of her husband, Rev. Charles C. Cragin.

The Agnes K. Crawford Memorial Fund of $1000, given by David R. Crawford and William Crawford in memory of their mother.

Ebell Club of Pomona Student Aid Fund of $1000. To help a woman student.

The Elwood Fund of $2600, given by Mary E. Elwood.

The Ford Fund of $2500, given by Rev. James T. Ford.

The Margaret Fowler Fund of $1000.

The Orren A. Gorton Fund of $5000.

The Emma K. Guild Fund of $44,887.

The Manette Hand Memorial Fund of $1500.

The Alfred James Harwood Memorial Fund of $8000.

The Charles E. Harwood Fund of $5000.

The Thomas F. Howard Memorial Fund of $3500, given by Dr. and Mrs. H. G. Brainerd in memory of Mrs. Brainerd's father.

The Mary Marvin Janes Fund of $679.

The Helen Day Jewell Fund of $1000.

The Henry L. Kuns Fund of $2000.

The Jean Loomis Fund of $2000.

The Howard J. Mills Memorial Fund of $3000.

The Ontario Congregational Church Fund of $186, given by the Ontario ngregational Church toward the endowment of a fund.

The Page Fund of $5000, given by Mrs. Loraine H. Page. (Three thousand llars of this may at some time be used for other purposes.)

The Arthur Warren Phelps Memorial Fund of $2000, given by Mrs. C. S. elps and Mr. C. A. Phelps in memory of their son and brother.

The Lydia Phelps Memorial Fund of $4000.

The Pilgrim Church of Pomona Fund, $2002, given by the Pilgrim Congre- tional Church of Pomona.

The Pilgrim Church Women's Auxiliary Fund of $556, given by the omen's Auxiliary of the Pilgrim Congregational Church of Pomona.

The John D. Potter Memorial Fund of $2000, given by Mrs. S. T. Potter in mory of her husband.

The Anna H. Searing Fund of $1800.

The Clyde H. Shields Memorial Fund of $2000, given by R. P. Shields in mory of his oldest son.

The Lucia Glidden Strong Fund of $911.

The Sweet Memorial Fund of $2500, given by Harlan P. Sweet in memory his wife.

The Maria T. Wardwell Fund of $1000.

The Clara B. Waterman Memorial Fund of $5000, given by Miss Rosa May nnett.

The Henry S. West Fund of $2000.

SPECIAL FUNDS

The Crombie Allen Scholarship Fund of $1000, half of the income available nually to a graduate of Chaffey Union High School and half to a graduate Chaffey College of Ontario, California.

The Martha E. Berry Memorial Fund of $6000, for foreign students.

The Mabel S. Bridges Memorial Fund of $3500, available for women.

The Alice Paul Harwood Scholarship Fund of $5000, open to graduates of affey Union High School of Ontario.

The Stella M. King Scholarship and Loan Fund for Women, $10,000.

The Francis M. Price Fund of $1000, for children of missionaries.

The Willard E. and Henrietta P. Thompson Endowment Fund of $27,13 the income from which provides funds for one or more departments of th college to employ students for clerical or other work. Only those students wh need financial assistance are eligible.

LOAN FUNDS

The college also administers loan funds by which it is possible t cooperate with the urgent need of students in making available t them amounts sufficient to cover tuition fees. Interest at the rat of 4% per annum begins on graduation or at the time of leavin the college. Loans from the following funds may be availabl applications for which should be addressed to the Committee o Scholarships and Student Aid.

General Loan Fund of $78,645.

The Caroline Phelps Stokes Fund of $25,000, endowed by the will Olivia Eggleston Phelps Stokes in memory of her sister, income from whic is available for loans.

The Ethan Allen Chase and Augusta Field Chase Fund of $5,527, availab for men.

The Ray Loan Fund of $1290, given by Mrs. E. F. Ray, to provide a mea of meeting situations of temporary need.

The David Clark Fund of $1162.

The Robert C. Denison Memorial Fund of $581.

The Edwin C. Norton Memorial Loan Fund of $1575, available for unde graduate students, or for graduates of the college who wish to pursue advance work in other institutions.

The C. F. Baker Memorial Loan Fund of $304, available for undergradua students, preferably juniors or seniors, in the departments of Botany an Zoology, who are approved by the heads of those departments.

The A. G. McKenna Loan Fund of $3000, available to graduating senio for advanced work at the institution of the student's choice.

The Anna Bruce Memorial Loan Fund for Women, of $530.

The Ellen H. Lyman Fund of $280.

The Associated Women Students Loan Fund, administered by the Dea of Women at the request of the Associated Women Students, makes avai able for women students short term loans for personal emergencies. It is n normally used for loans to meet college bills. Interest at the rate of 4% begi after a period of two years.

The Associated Men Students Loan Fund, established in 1931, is available or loans in small amounts to meet personal emergencies or short-term personal ieeds of Pomona men. It is not intended to be used to pay college bills. For a pecial need a loan may be issued on a long-term basis. The interest rate is 4%. The fund is administered by the Dean of Men at the request of the Associated Men Students.

STUDENT EMPLOYMENT

The College endeavors to find employment for students needing o earn part of their expenses. Many are thus helping themselves ıy various forms of labor such as clerical work, baby sitting, janitor vork, waiting on tables, general house work and gardening.

Applications for aid in securing employment should be addressed o the Director of Placement Service, Sumner Hall.

PRIZES AND AWARDS

GENERAL

The following prizes and awards are available for general ıccomplishments and for proficiency in the work of the several lepartments:

The Rena Gurley Archibald High Scholarship Prize: A prize of $50 to be warded to that member of the graduating class taking the B.A. course and anking highest in scholarship was established by the bequest of the late Reverend Andrew W. Archibald, D.D.

The Mary Ford Bacon Memorial Prizes: Three prizes of $100 each for the ıest essays or monographs relating to the Constitution of the United States re awarded annually by the Departments of History, Government, and Eco- ıomics. The three contests are conducted separately under special rules made ıy the faculty of each department. Entries are judged with due regard for ffectiveness of style, originality of thought and depth of insight into the pirit and operation of the American constitutional system. The Mary Ford Bacon Memorial Fund also provides a sum of money for the purchase of books nd other materials on the Constitution recommended by the faculty in his- ory, government, and economics.

The Arvid Pierre Zetterberg Award: From a fund endowed by Mr. and Mrs. A. P. Zetterberg in memory of their son, Lt. Arvid Pierre Zetterberg, an nnual award of $50 is made to the sophomore man who during his freshman ear exemplifies the highest qualities of character, scholarship, and interest in nanly sports. The award is made on nomination of the Scholarship Com- nittee and is presented at the Opening Convocation in September.

ART

The Rembrandt Club Art Prizes: A first prize of $25, and a second prize of $10, are awarded by the Rembrandt Club for excellence in drawing and design, in work presented for the annual student exhibition.

The Rembrandt Club Art History Prize: A prize of $10 is given by the Rembrandt Club for the best paper presented in the course in History of Art.

ASTRONOMY

The Moncrieff Astronomy Prizes: Prizes given to students in the first year course in Astronomy, taken regularly in class, whose interest in the study and proficiency in the observatory work are indicated by the best notebooks kept in accordance with the teacher's suggestion. Prizes totaling $50 are endowed by Miss Flossie C. Moncrieff, '11.

BIOLOGY

The Vaile Prize: A prize of $15 to be awarded to an outstanding student in Botany or Zoology was endowed by the late Mr. Charles S. Vaile.

CHEMISTRY

The Stanley D. Wilson Prize: A prize of $50 endowed by Dr. Stanley D. Wilson is awarded annually to the student whose independent study in research shows greatest promise for creative work.

CHEMISTRY-GEOLOGY

The James A. Lyman Prize: A prize of $100 awarded at the beginning of the college year to a senior student majoring in chemistry or geology who in the opinion of the chemistry-geology faculty, shows special promise of achievement in research or teaching, or both. Established in memory of Dr. James A. Lyman, Professor of Chemistry 1909-1926, by his son, Dr. George P. Lyman, '26.

ECONOMICS

The Morris B. Pendleton Prizes: One or more prizes of $25, made possible by the Morris B. Pendleton Fund, are awarded annually to economics seniors who have distinguished themselves for their work in the department.

EDUCATION

The Ada May Fitts Education Prize: A prize of $50 endowed by Mr. Charles T. Fitts in memory of his wife, Ada May Fitts, is awarded annually to a student for excellence in courses in the Department of Education and for unusual promise in the educational field.

ENGLISH

The John Dye Award: From a fund established by Mr. and Mrs. John Thomas Dye in memory of their son, John Thomas Dye, III, who was a Lieutenant in the Army Air Corps, is offered an annual award of $100 for the best piece of original writing to appear in a student publication. The award is announced at Commencement time.

The F. S. Jennings Memorial Prizes: Three prizes for men and three prizes ır women of $50, $40, and $30, respectively, for excellence in English are ʻailable each semester to members of the Freshman class taking English I. ı the award of these prizes attention is given to the interest shown by the udent in improving the quality of his written and spoken English.

GOVERNMENT

The Edward M. Sait Prize: A prize of $5 for the purchase of a book relating American or comparative government, or for a membership in the American ɔlitical Science Association, is awarded to the student doing the best work the basic course in government.

The Russell M. Story Prize: A prize of $5 for the purchase of an appropriate ɔok, or for a student membership in the American Society for Public dministration, is awarded to the student doing the best work in the course public administration or in state and local government.

The George S. Burgess Prize: A prize of $5 for the purchase of an appropri- e book, or for a subscription to a selected law review is awarded to the udent doing the best work in the course in legal history or constitutional w.

INTERNATIONAL RELATIONS

The Cordell Hull Prize: An award of $50 is offered annually to the student ho submits to the committee on International Relations the best essay on a ·oblem relating to the United Nations. Subjects must be cleared with the cretary of the committee on or before April 1, and the essays, between 2500 ıd 3000 words in length, must be submitted in triplicate on or before May 1. case no one essay is of outstanding merit, the committee reserves the right ther to divide the honors or to make no award.

LATIN

The Mudge Latin Prizes: First and second prizes of $10 and $5, respectively, r excellence in Latin are endowed by friends of the College.

LIBRARY

The Eda May Haskell Library Prize: A prize of at least $15 in the form a purchase order for books is offered for the best library submitted by a nior student, not necessarily for the largest or most expensive collection but r the most intelligently selected books in one or more fields of the student's terest.

MATHEMATICS

The Llewellyn Bixby Mathematics Prize: A prize of $10 for excellence in nalytic Geometry and Calculus; open to all students completing both Mathe- atics 1 or 52 and 65.

MUSIC

The Barbara Sanford Allen Prize: An annual competitive prize of $50 to awarded to a student in the department of music, above freshman rank. his award is made possible by the husband and parents of a graduate of the lass of 1915 of Pomona College.

PHYSICS

The Tileston Physics Prizes: Two prizes have been established in memo of Professor Roland R. Tileston by former students and by members of family; a prize of $10 to the outstanding freshman or sophomore student the Physics 1 course; a prize of $50 to the junior student in physics wh record in the course and department work is judged most promising.

PUBLIC SPEAKING

The Kinney Declamation Prizes: A prize declamation contest open to me bers of the Freshman class occurs early in the second semester. First, seco and third prizes of $25, $20, and $15, respectively, were endowed by the l Mrs. H. N. Kinney.

The Dole Debate Prizes: A prize debate for lower-division men is h near the close of the second semester. First and second prizes of $30 and $ respectively, established by the late Mr. John H. Dole in memory of brother, Mr. William B. Dole, were endowed by Mr. Arthur M. Dole, '96.

The Stella King Prizes: The opportunity to compete for prizes totaling $ for speeches of their own composition is offered to upper-division stude The judges have the right to distribute the prize money among the contesta as they see fit, or to withhold all awards if they feel warranted in so doi These prizes were endowed by the late S. H. Wheeler, in memory of M Stella King.

RELIGION

The Hager Prize: A prize of $10 for the best essay on a foreign mission subject, open to all students, was endowed by the late Mr. and Mrs. C. Hager.

General Information

LIBRARY

Pomona College shares with the other Associated Colleges the facilities of the Honnold Library, which houses approximately 250,000 volumes and 180,000 bound and unbound nited States and California government documents, and an un-ıtalogued pamphlet collection. The Library subscribes to over 500 periodicals and maintains bound files of approximately 1,000, ıany of which are complete. Especially valuable are the periodical oldings in the field of natural science. The library is a depository or U. S. Government Documents, California State Documents, ıd the publications of the Carnegie Institution.

The following special collections are a part of the general library: ıe Cook-Baker Biological Library and the Parish Botany Library ı Crookshank Hall and the Rancho Santa Ana Botanic Garden uilding; the James A. Lyman Memorial Library of Chemistry and ıe Geology Library in Mason Hall; and the Mathematics and hysics Library in Pearsons Hall. Housed in the main building are ıe Mason California, the Wagner North Pacific, the McCormick .orean Libraries, and the Viola Minor Westergaard and Carnegie .rt Collections.

In addition to the Pomona College Library, the Honnold Library .so houses the libraries of the Claremont Graduate School, Clare-ıont Men's College, and a part of the library of Scripps College. 'he main Scripps College Library is housed in the Ella Strong)enison Library. It contains in addition to its general collection the Iacpherson Collection of books about women, and the Stephenson Iemorial Collection of American History.

PUBLICATIONS

'he stated publications of the College are issued as numbers of ıe *Pomona College Bulletin,* which is published monthly except ıly and August. These include: the *Annual Catalog,* the *Report of ıe President,* and the *News Letter* for Alumni.

LECTURE FOUNDATIONS

The Joseph H. Johnson Foundation, endowed by Miss Ellen Scripps, provides an annual income for the purpose of bringin distinguished lecturers to Pomona for a protracted stay and intima participation in college life.

The Clark Foundation, established by Mr. Arthur O. Clar makes it possible for the College to offer each year a lecture course of lectures in the general field of religion.

The Henry D. Porter Foundation, named in honor of the la Rev. Henry D. Porter, for many years a missionary in Chin provides for a lecture by some prominent worker in the field Christian Missions.

PUBLIC ASSEMBLIES

A general assembly of the college is held each Thursday at 11 a.r for the purpose of hearing visiting lecturers or members of th faculty discuss topics of interest to the whole institution. Th assembly period is also used for student body and class meeting

On five stated occasions throughout the year, including th opening of each semester, College Convocation is held. Full atten ance of both faculty and students is expected at these exercises.

RELIGIOUS ACTIVITIES

The five Associated Colleges at Claremont unite in a Colleg Church which holds its services each Sunday morning at eleve o'clock in Bridges Hall of Music. The Church is the coordinatin force for religious activities among the colleges. Students partic pate in the services and there is a special student choir for th Church.

The College Chapel, which is altogether a service of worship, held every Tuesday morning from 11:00 to 11:25 in Bridges Ha of Music. Both students and faculty participate in the program, which attendance is voluntary.

Various expressions of religious interest and forms of religiou activity exist on the Pomona campus: worship, study and di cussion groups, campus and community programs of service, an contacts with intercollegiate enterprises. These interests and the sponsoring organizations are centered in the College Church a a campus-wide agency to encourage interest in religion and t

evelop religious activities. The College Church maintains rela-onships with the national Student Christian Movement and the Vorld Student Christian Federation.

MUSIC

'he College cooperates with Scripps College, Claremont Men's :ollege, Harvey Mudd College, and the Claremont Graduate chool in the presentation in Bridges Auditorium of the most distin-uished masters in the field of music. Regularly included in the :ries is the Los Angeles Philharmonic Orchestra.

For the concerts thus afforded an annual ticket is furnished to very full-time student without extra charge.

Under the auspices of the Pomona College Department of Music, mplimentary public recitals by individual students and members f the faculty and by groups are given frequently throughout the ear. These are usually given on Monday evenings.

The College Symphony Orchestra, the Choir, the Men's and Vomen's Glee Clubs, the Band, and chamber music groups, afford pportunity for the study and public performance of the finest in nsemble music.

CAMPUS ORGANIZATIONS

'he Associated Students. This association coordinates all student ctivities. Its officers are chosen by the student body from among ieir own number. All important questions are first considered by ie Executive Council, a governing group composed of class presi-ents and chairmen of other organizations representing various ctivities of campus interest. These students are responsible not to ie organizations which they represent on the Executive Council ut to the Executive Council itself.

Associated Men Students and Associated Women Students. These rganizations consider and promote the special interests of the men nd women respectively.

Class Organizations. Each of the four college classes is organized r the purpose of promoting class social life.

Phi Beta Kappa. The Pomona Chapter of Phi Beta Kappa is the amma of California. Upperclassmen "who are of good moral

character, who are candidates for the degree of Bachelor of Arts and who are distinguished for breadth of culture and excellence o scholarship" are eligible to membership in the Phi Beta Kappa Society.

Honor Societies. Ghosts; Mortar Board; Gamma Chapter o Alpha Kappa Delta, Sociology Fraternity; California Alpha Chap ter of Kappa Mu Epsilon, National Honorary Mathematical Fra ternity; Delta Sigma Rho, National Honorary Forensic Fraternity

Departmental Organizations. El Circulo Español, Le Cercl Français, German Club, Caduceans, Economics Club.

Musical Organizations. Men's Glee Club; Women's Glee Club Music Club, Symphony Orchestra, Chamber Music Groups, Band

Dramatic and Literary Organizations. Drama Productions Com mittee, Masquers and Thespians, in Dramatics; and Orchesis, in Dancing.

Other Organizations. Camera Club; Ski Club; Women's Recrea tional Association.

KSPC, a local F.M. radio station owned and operated by the stu dents, covers the campus and the surrounding area and provide radio experience for interested students.

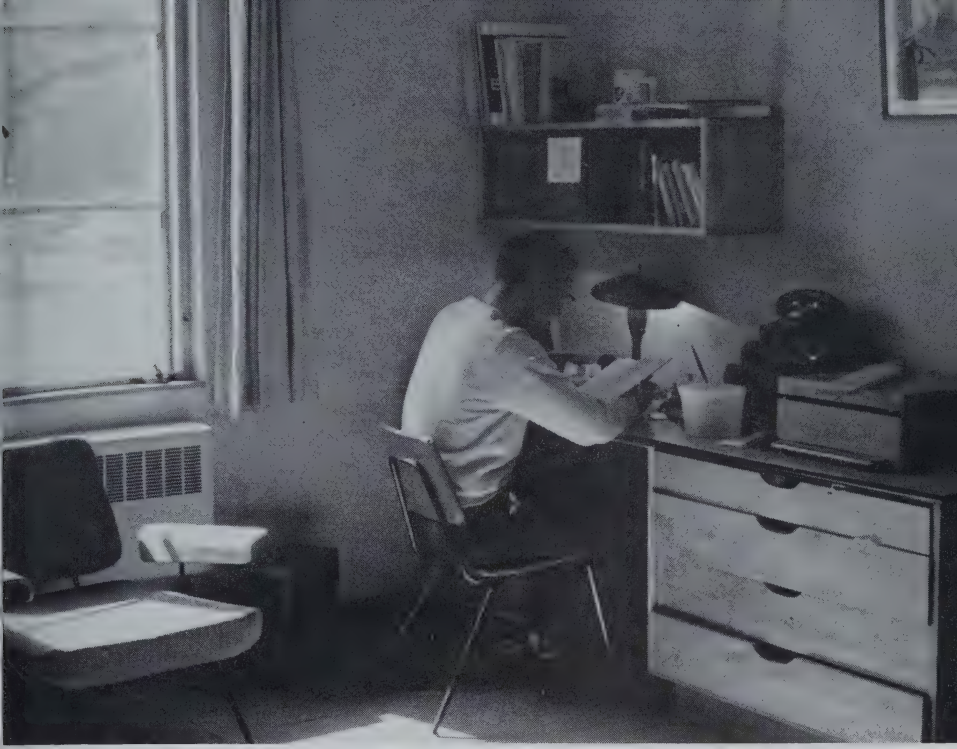
Local Social Fraternities. Alpha Gamma Sigma; Kappa Delta Kappa Theta Epsilon; Nu Alpha Phi; Phi Delta; Sigma Tau. Each fraternity has a club room in one of the residence halls on th men's campus. Approximately one-third of the men students belong to the fraternities which pledge new members during the sophomor year. There are no sororities on the campus.

STUDENT PUBLICATIONS

The *Student Life* is published weekly by the student body and i devoted to campus affairs.

The *Metate* is the yearbook published by the Associated Students

The *Hand Book,* which contains material designed especially fo new students, is issued at the beginning of the year by th Associated Students.



Room in the Helen R. Walker Residence Hall for Freshmen

Walker Residence Hall and Lounge, and Frary Dining Hall for Men

Pomona-Claremont Voluntary Unit of the ROTC

Playing Fields Are Gathering Places for Men in the Late Afternoon

FACULTY-STUDENT COMMITTEES

omona College assumes that most of the matters which affect the ollege are of concern to both faculty and students and believes at the experience and the judgment of both should be taken into ccount in the management of much of the college life. For this eason a large number of the policy forming committees of the ollege have both faculty and students as voting members. These ommittees now include the following: Admissions, Athletic Coun-l, College Life Council, Personnel, Public Events, Religious Ac-vities, Student Affairs and Vocational Counseling and Placement.

CONDUCT

omona College assumes that its students, having voluntarily en-olled, are in sympathy with its purposes and philosophy, and will ide by its accepted practices. This basic philosophy is that all embers of the college community will govern their conduct by andards of good taste and ethical judgment, and will exercise eir responsibility as members of the community when these stand-ds are disregarded by others. Any behavior on or off the campus hich may bring discredit to the individual or to the College may sult in disciplinary action.

The use or possession of alcoholic liquors of any kind on the mpus is prohibited by the college.

Students are held responsible for the AMS and AWS residence les.

The faculty has placed the interpretation and execution of these olicies in the hands of the Committee on Student Affairs, which nsists of the deans and certain faculty members appointed by the resident and four student members appointed by the Executive ouncil of the Associated Students. Under this Committee as a olicy-making body the College Life Council functions, composed seven faculty members appointed by the President and eleven udent members elected from the student body.

Since 1948-49 the College Life Council has been delegated the sponsibility for dealing with inter-class rivalry, for supervision of aternities, for regulations governing the use of automobiles, and r the administration of discipline except for cases involving in-ingements of academic honesty and honor.

The Judiciary Councils of the Associated Women Students a the Associated Men Students administer regulations concerni conduct in the residence halls on their respective campuses, ar acting together as a joint body, carry out the policies of the Colle Life Council and act as a court or advisory body in matters discipline, except in those considered by the deans to involve serio problems of personality adjustment. The Judiciary Councils a empowered by the College Life Council to take disciplinary acti up to and including expulsion in cases of misconduct. Any memb of the Judiciary or any defendant in a judiciary case may appeal a judiciary decision to the College Life Council.

Individual or collective student enterprises which use the colle name and involve the absence of the participants from the colle must receive the official sanction of the Committee on Stude Affairs.

AUTOMOBILES AND MOTORCYCLES

Rules governing the use of automobiles are formulated and adm istered by the College Life Council. Students maintaining cars Claremont are subject to the following regulations:

Registration and liability: Ownership of the car, together with license number, must be registered with the office of the Dean Men or the Dean of Women at the opening of college or with three days after the car is driven in Claremont. The student is sponsible for having on the windshield of his automobile the I mona sticker issued at the time of registering the car. At the sa time, the College Life Council also requires that owner furn evidence of having liability insurance.

Student drivers must at all times, both on and off the camp exercise particular care and consideration for the safety of the selves and others, and must acquaint themselves with the st and local traffic laws and comply with their observance.

No campus-resident student may use or park a motorcycle o motor scooter anywhere on the campuses, grounds, or streets of t Associated Colleges. A student may drive or keep a motorcy outside of college limits provided he does not bring it on any p of the campuses.

Off-campus residents who need motorcycles or motor scoot for commuting purposes may secure a special permit and drivi

nstructions from the Campus Police Department. This permit is or commuting to the campus, not for driving about the campuses or college streets. The fee for motorcycle and motor scooter registration is the same as for off-campus students' car permits.

Failure to comply with the above regulations shall constitute an offense against the college, the penalty for which may include sequestration and storage of the vehicle at the student's risk and expense for a period not beyond the end of the term in which the offense occurs.

Campus Fee: Students who use the campus streets, grounds and parking lots for overnight parking will be charged a fee of $4.00 semester. Those who have their cars on campus during the day only will be charged $2.00 a semester. Reduced fees will be charged or a period of less than one month.

MEDICAL AND PHYSICAL CARE

Pomona College, in cooperation with the other Associated Colleges, engages the full-time services of two physicians to care for its students.

The medical advice of the college physicians is ordinarily available, free of charge, to all students, subject to certain conditions of hours and location of residence. Minor ailments are treated at the Baxter Medical Building or at the Infirmary, which is used for cases requiring nursing and certain types of hospital care. All surgical dressings and medicines are at the expense of the ill or injured is also medical service in chronic or prolonged illness or in case of accident, or an acute illness beyond ordinary first-aid emergency treatment. The college nurse visits the residence halls each morning in order to see those students reported ill.

The student is entitled to two days each semester at the College infirmary without charge for room and meals. If illness requires hospitalization for additional days, the charge is $7.50 per day. The College, however, reserves the right to discontinue this individual medical service at any time, without previous notice.

The College does not assume responsibility for the complete medical care of all its students, but only in so far as its present facilities will afford. Preventive medicine and campus health functions are stressed in the college medical program.

The College has completed arrangements by which its students

may purchase group health and accident insurance at special rates and it advises students to avail themselves of this opportunity. Detailed information about this insurance may be secured from the Dean of Students or from the college physicians.

Students are expected to conform to the medical regulations of the college.

PHYSICAL ATTENTION AND REQUIRED PHYSICAL EXAMINATIONS

The physical care of students is a matter of special concern to the college. The medical certificate required of all applicants prior to admission includes a certificate of recent successful small-pox vaccination and a certificate of satisfactory tuberculin test, or an x-ray of the chest, performed within the preceding six months. Any student, while in college, may be required to present each year a follow-up certificate of examination for tuberculosis. Regular work in physical education is prescribed throughout the four years.

Required examinations after admission: Every student on entering college is given a physical examination under the direction of the College Physician. All new students entering in the fall semester are required to complete the examination during New Student Days or by November 1, and those entering in February are required to complete it by March 1. Failure to meet this requirement within the announced time limits will result in the temporary withdrawal of the student's privileges of registration and class attendance until the requirement is met.

Each academic year a student is in residence he is required to complete a chest x-ray examination while the mobile x-ray equipment is on campus or within fifteen days thereafter. Failure to meet this requirement will result in the suspension of privileges of registration and class attendance until notice has been received from the physician of the Associated Colleges that the requirement has been met.

ATHLETICS

Pomona College and Claremont Men's College unite to conduct a joint program of intercollegiate athletics, under one coaching staff, as a member of the Southern California Intercollegiate Athletic Conference. Our teams, known as the "Sagehens," compete i

ootball, basketball, track and field, baseball, cross country, wimming, golf and tennis.

In addition to the program of intercollegiate sports the College aintains an extensive program of intra-mural sports open to all ien students.

The direction and financial management of athletics rest with ie Director of Athletics, who has associated with him as an dvisory body the Athletic Council, composed of three members f the Pomona Faculty, one member from the Claremont Men's ollege Faculty, three student members from Pomona and two udent members from Claremont. Under the general manager, iere is a student manager for each sport.

The college endeavors to safeguard students in the use of its hysical education facilities, athletic fields, and gymnasiums, and o this end the department has established regulations concerning ie use of such facilities, but it is clearly understood that students ho use the same do so entirely at their own risk.

ASSOCIATED COLLEGES COUNSELING CENTER

he Associated Colleges maintain a Psychological Counseling Center nder the direction of a Clinical Psychologist. The Director of the enter, Dr. Robert Keith, works in conjunction with the college hysicians, Dr. Gilbert S. Coltrin and Dr. D. Scott Fox, and with Dr. obert Hinshaw, a psychiatrist. The Center offers instruction in eading and in study techniques, vocational testing and consultation id counseling on personal and emotional problems. Most of the rvices are open to Pomona students without charge, including one onsultation with the psychiatrist. The cost of any additional con- ltations with the psychiatrist must be met by the student, and a ominal fee may be charged for extensive counseling from the sychologist.

VOCATIONAL COUNSELING AND PLACEMENT

hrough faculty advisers and the personnel services of the college, udents receive assistance in their choice of a career. The college aintains a vocational placement service for the benefit of alumni id students. Many alumni cooperate with the Director of the acement Service in assisting seniors and graduates to find nployment and to provide reliable occupational information

concerning representative business organizations, government agen cies, the professions, and other opportunities for employment.

Each year conferences on careers for men and women are hel on campus under the sponsorship of the academic departments an the faculty and student committees on vocational services.

A Vocational Information Center is maintained in the Honnol Library with information on vocations in this country and oppor tunities for placement abroad and for foreign study. Informatio on scholarships and fellowships for graduate study is made availabl to interested students by the Scholarship Committee, the Vocationa Information Center at the Honnold Library and department office

STUDENT EXCHANGE PROGRAM WITH FISK UNIVERSITY

Under arrangements which are made each year, two or three Po mona students of junior standing are selected from interested appli cants to spend a semester at Fisk University, Nashville, Tennessee The program operates on an exchange basis, and an equal numbe of Fisk students come to Pomona for a semester's experience. Inter ested Pomona students should make application to the Fisk Ex change Committee at a time which will be announced by th Chairman of the Committee.

GRADUATE WORK IN THE CLAREMONT GRADUATE SCHOOL

Graduate work leading to the Master of Arts degree is offered i several fields including Asian and Latin American studies, botan economics, education, English and American literature, geolog government, history, music, psychology, public affairs (busines economics, government administration, international relations), an romance languages. The Master of Fine Arts degree is given on two-year program in applied art combined with art history an theory.

The Doctor of Philosophy degree may be taken in botany, ec nomics and government, education, English and American litera ture, history and psychology.

The Claremont Graduate School is authorized to recommen candidates to the California State Department of Education for th

llowing public school teaching credentials: general elementary, eneral secondary, junior college, and special secondary for art. ork also is offered leading to administrative credentials and to the upil personnel services credential.

The annual bulletin may be obtained from the Admissions Secretary, Harper Hall, Claremont, California.

INTERCOLLEGIATE PROGRAM

nder a grant from the Fund for the Advancement of Education of e Ford Foundation, the Associated Colleges at Claremont are cooperating with Occidental College, the University of Redlands and hittier College in the Intercollegiate Program of Graduate Studies esigned to prepare college teachers of comparative literature, English and American literature, economics and government, and history. Those interested in this program should consult the Dean of e Claremont Graduate School.

GRADUATE RECORD EXAMINATION

any graduate or professional schools require or request that applints for admission, as well as for fellowships and scholarships, take e Graduate Record Examination administered by Educational esting Services, the national academic testing organization. Stuents who wish to receive information concerning the dates on hich the examination is given are advised to write early in their nior year directly to the Educational Testing Service, 4640 Hollywood Blvd., Los Angeles 27, Calif.

SUMMER SESSION

he Claremont Summer Session is sponsored jointly by Pomona ollege, Scripps College, Claremont Men's College, Harvey Mudd ollege, and the Claremont Graduate School. It is organized in two nsecutive terms of six and five weeks, and offers a full program of ndergraduate and graduate courses. A bulletin describing summer ork is published annually in February and copies may be obtained om the Summer Session Office, Harper Hall, Claremont, California.

Pre-Professional Preparation

Although the liberal arts program at Pomona aims at a broad and fundamental education rather than specialized vocational training, the regular work of the college prepares students for direct entry into many vocations, as well as for specialized work in graduate and professional schools.

National corporations each year employ thousands of college graduates and train them for executive positions. Though such senior have often majored in economics, government, or science, many employers consider the field of study less important than character, maturity, and intellectual ability demonstrated by successful college work. Many women with a Pomona degree go directly into responsible positions in business and the professions.

Positions as industrial chemists, physicists, and geologists, as well as Federal and State Civil Service positions, are available to Pomona graduates without further study. Majors in mathematics are in demand by both business and industry. English majors may go into advertising, public relations, journalism, or publishing. Graduates in botany often find positions with the Forest Service or the National Park Service. In many counties of California, sociology majors can go directly into social work with the B.A. degree. Graduates who have concentrated in the social sciences are eligible to take competitive examinations for a variety of civil service positions, such as Junior Management Assistant, and other federal or state offices. Pomona graduates interested in careers in the Foreign Service are eligible to take the examinations given by the State Department which is at present conducting a recruitment program.

More than half of Pomona's graduates go on to professional schools. Most departments of the college prepare students for advanced work in graduate school. Some of the professional opportunities are listed below.

PRE-AGRICULTURE, PRE-FORESTRY AND PRE-LANDSCAPE ARCHITECTURE

A strong program in the natural sciences is the best preparation for agriculture or forestry and, coupled with an equivalent program in art, for landscape architecture. The courses necessary for programs in these fields are available at Pomona College. A complete list of

ommended courses in all three may be obtained from the Depart-nt of Botany.

Ordinarily preparation in agriculture, forestry, or landscape archi-ture involves a full four-year course of background material to-ther with a broad general education. This is followed by a year a graduate or technical school bridging the gap between pure ence or art and their application. Such a program prepares for dership in the field, rather than a minor position involving only special application of a segment of the subject. It is designed to velop adaptability to many situations rather than specific prep-ition for a few.

RE-ARCHITECTURE

his program offers combined work from the areas of art and pre-gineering. It provides a balanced program in those disciplines ich lead directly to further study in professional architecture and dustrial design. Each student's program will be planned in ac-rdance with the particular emphasis desired by the proposed pro-sional training.

The lower division requirements are: Art 1, 52, 61, (18 units); athematics 1 and 65 (12 units) or Mathematics 50 (6 units); ysics 51 and 52 (8 units); Engineering Drawing 7 and 40 (4 to 8 its). In addition to these courses the following course is strongly ommended: Art 9 (4 units).

For details in upper division work leading to a concentration in or pre-engineering the student should consult his major advisors a detailed list of courses.

PRE-BUSINESS COURSE

CENT EVIDENCE REVEALS that the tendency for business executives come from the social sciences, particularly economics, is growing. odern management needs to know much besides the particular ts and skills associated with an individual business. A thorough derstanding of the economic system and business-government rations, along with the power to communicate accurately and nvincingly, is more and more becoming a prerequisite to business cess.

Students at Pomona College, planning a career in business will d a rich offering of courses, including accounting, statistics,

money and banking, labor economics, national income, economic theory and business policy, trade regulation, business law, taxation, international trade, and international finance. During the senior year, the student is urged to take honors work or supervised study in the area of his own special interest under the direction of a staff member. The program is ideal for the student who plans to attend a graduate school of business, to pursue an advanced degree in economics, or to enter one of the special business training programs for college graduates.

This program at Pomona College is now within reach of any student who has the requisite ability, character, and initiative. See "Scholarships and Student Aid." Some scholarships covering full tuition, fees, and books are now available annually to incoming freshmen who plan on business as a career.

DENTISTRY. See Pre-Medical

ECONOMICS—ENGINEERING

This curriculum combines a broad and strong training in the physical sciences with an integrated program of economic and business principles. The student who follows this curriculum will be better prepared to accept with understanding the responsibilities of leadership in modern engineering organization. The course work may be organized to prepare the student for graduate work in Industrial Management or Business Administration.

The lower division requirements are: Mathematics 1 and 6 (12 units), or Mathematics 50 (6 units); Economics 51, 52, 71 and 72 (14 units); and Physics 51 and 52 (8 units), or Chemistry (8 units).

The concentration requirement may be satisfied by taking a minimum of 30 units of upper division work in the four cooperating departments by completing a minimum of six upper division units in Mathematics, Economics, and Chemistry or Physics, with a minimum of 12 units in at least one of these fields.

Each student's program will be planned in accordance with his background and interests. A faculty advisor will advise him which courses in each department can be counted toward the minimum requirements.

NGINEERING

Students at Pomona College who plan to enter a professional gineering school have an opportunity to obtain an excellent ndation in mathematics and physical science in addition to a ll-balanced liberal training. Such students should consult with mbers of the staff in physical science who are acquainted with gineering school requirements. The special program, described ow, has been established, but Pomona graduates are prepared enter other engineering schools as well.

COMBINED PLAN
CALIFORNIA INSTITUTE OF TECHNOLOGY

ONG WITH SEVERAL other liberal arts colleges, Pomona has an angement with the California Institute of Technology whereby alified students may receive the Bachelor of Arts degree from mona and a Bachelor of Science degree from the California Insti- e of Technology after a combined five-year program, of which the st three years are taken at Pomona. Without the combined plan at st six years would usually be required to complete the work for h degrees. Students under the combined plan will be accepted at California Institute of Technology without examination if recom- nded by Pomona.

n satisfying the Lower Division Distribution Requirement of mona College, the humanities requirements of the institute should carefully considered in consultation with the adviser. In addition, following Lower Division courses should normally be completed.

Physics 51 and 52
Mathematics 1 and 65, or 50
Engineering Drawing 7ab
Engineering Drawing 40ab
Chemistry 1 or 59

Satisfaction of the Pomona College concentration requirement in -engineering for those students who transfer at the end of junior year shall include at least 24 Upper Division units ected from the following courses in consultation with the Faculty viser. Starred courses shall normally be included.

Mathematics 151a*, 151b
Mathematics 125*, or 150*
Physics 110*
Physics 113a*, 113b
Physics 141a*, 141b
Physics 142a*, 142b
Physics 101
Physics 153

Students planning combined programs in specialized fields s as chemical engineering, architecture, food technology, and planning will approximate the above requirements on a unit b but with substitution of more suitable courses where deemed ad able after consultation with the Faculty adviser.

Those students concentrating in pre-engineering and who plar graduate after four years at Pomona College shall complete 36 u in Upper Division courses selected from the above list and from additional list below:

Mathematics 118
Mathematics 119
Mathematics 102
Physics 191
Physics 192
Engineering Drawing (up 4 units in courses numbe over 100)

JOURNALISM

On the recommendation of graduate schools of journalism and distinguished journalists, students planning a career in journal are advised to concentrate in any principal field of study, to sec a broad and liberal education, and to improve their mastery of art of writing. Courses in the social sciences, literature, the a and foreign languages are strongly recommended.

LAW

Adequate preparation for the study and practice of law requ the completion of an undergraduate program in the liberal leading to the baccalaureate degree. The best law schools do require any particular undergraduate concentration; they are in ested in breadth of background and quality of work. Lawyers law schools agree that the ability to write and speak with cla and precision is of paramount importance. A broad foundation government, economics, and history is essential; accordingly if student concentrates in one of these, he should be sure to sup ment his choice with courses in the other fields. A year of account is strongly recommended.

BRARY SCIENCE

BACHELOR's degree, the ability to use the typewriter with accuracy d speed, and a reading knowledge of at least two modern foreign guages are usually prerequisites to admission to a library school. l librarians will find a knowledge of statistical methods useful. idents expecting to take up public school library work in lifornia are required to complete nine hours in education. Al- ough it is not a prerequisite, actual experience in a library is a tinct advantage.

JSIC

MONA'S PLAN for concentration in music is designed for those o desire to carry on their collegiate music study in the context of road liberal arts program, with 45 to 60 units in music out of the al of 126. Areas of music concentration include performance, con- ting, composition, secondary school music, and a flexible General ncentration intended primarily as a terminal program. Concen- tors who plan to do post-graduate study in the field should ac- re a reading knowledge of at least one modern foreign language.

E-MEDICAL

THOUGH THE curriculum below is suggested for preparation for dical or dental school, it is not necessary for prospective candidates medicine or dentistry to elect it as a concentration. Admission to fessional school is possible from any concentration, such as glish, Philosophy, History, etc., as long as the basic science require- nts are met.

Minimum requirements for entrance to medical and dental col- es have been designated by the Council on Medical Education the American Medical Association and by the Council on Dental ucation of the American Dental Association. Many of the leading leges in these fields, however, have requirements well beyond s minimum, and are selecting only those candidates who are best pared and have demonstrated high scholastic ability and laudable sonal traits. Pre-professional students are advised not to attempt to wd the minimum requirements into three years of college, but to low a program planned to give breadth of view and a thorough unding in the fundamentals of the biological and physico- mical sciences.

For preparation for optometry, physical therapy and other allie medical arts, consult with the Chairman of the Pre-Medical Com mittee.

The curriculum outlined below meets the requirements for grad uation from Pomona College and the entrance requirements of mos of the medical and dental colleges in the United States.

REQUIREMENTS FOR PRE-MEDICAL CONCENTRATION

Lower Division Courses: Zoology 1; Chemistry 1, 59; Mathemati 1 or equivalent; Physics 51, 52.

Upper Division Courses: 24 units minimum; Chemistry 106, 110 111a; plus 17 upper division units selected from one or more of th science departments.

SUGGESTED COURSES

FRESHMAN YEAR: English 1; Chemistry 1; Zoology 1; History 1.

SOPHOMORE YEAR: Chemistry 110, 111; Mathematics 1; Zoology 11 120, (required by University of Southern California and The Un versity of California medical schools). Electives from languag (reading knowledge or 12 units required by University of Californi medical schools), literature, art or music; philosophy or religion.

JUNIOR YEAR: Chemistry 59, 106; Physics 51, 52. Advanced languag electives from the social sciences.

SENIOR YEAR: Electives in science to complete concentration, Speec 32, English 63 plus electives in other areas to complete graduatio requirements.

Some medical and dental colleges require a reading knowledge French, German or Spanish, with a preference for German. Studen planning to study medicine should anticipate this requirement b taking some language in high school followed by at least one ye in college. Students will find it advantageous to take trigonomet in high school. In addition students should consult with the adviser to determine the specific admission requirements of sever medical and dental schools to which they wish to apply and to lea the proper time to take the Medical College Admission Test or th Dental Aptitude Test. These tests are required for entrance into mo medical and dental colleges.

RE-NURSING STUDIES

UDENTS INTERESTED in pre-nursing should consult the Zoology ting concerning the Zoology-Chemistry concentration.

SYCHOLOGY

CENT SURVEYS indicate an acute shortage of well trained profes- nal psychologists in clinical, counseling, educational and industrial as. There is also a growing demand for experimental psychologists fulfill important research functions in the Armed Services, U. S. blic Health Service, and various local agencies. Social psychologists d experimental psychologists are needed for research in advertis- g and industrial settings. Women in particular are sought for eers in nursery school and child development. Since many olarships, grants, and assistantships are available to graduate dents, superior graduate and professional training is available to dents in psychology at minimal cost.

An undergraduate concentration in psychology at Pomona pro- les a broad general background which is not only necessary for aduate training in psychology, but also is appropriate to later work elementary education, social work, psychiatric nursing, and under- nding human behavior in social, industrial, and home situations.

UBLIC SCHOOL TEACHING AND ADMINISTRATION

L STATES require the public school teacher to have a credential nted by the state department of education. The teaching creden- l is also the usual basic requirement for certification as a school ministrator. California requires students who wish a *secondary* dential to complete a bachelor's degree and one year of graduate rk. This program must include a teaching major of 36 units and eaching minor of 20 units in fields commonly taught in the high ools of the state. The two fields must be selected from the follow- g: social studies, life sciences, physical sciences, English, speech, guage arts, foreign language, mathematics, health education, iculture, art, business education, home-making, industrial arts, rarianship, music, physical education, and conservation education. dents majoring in areas not listed must present two teaching nors from among the listed fields. Most prospective secondary ool teachers will concentrate at Pomona College in the area or as they expect to teach.

The minimum state requirement for the *elementary* or the *kind garten-primary* credential is a four-year baccalaureate course, inclu ing certain specified work in professional education, but no speci subject major or minor is required. However, several Califor colleges and universities, of which Pomona College is one, beli that the soundest, most effective preparation for elementary sch teaching involves definite concentration in fields allied to the e mentary school program (e.g. English, history, music, art, physi education, child psychology). Also, in line with widespread pol in other California institutions, Pomona College feels that a gr uate program of professional study is as desirable for elementary for secondary teachers. The college therefore assumes that prosp tive elementary school teachers will elect to major in a departm appropriate to the elementary school curriculum and will plan complete their professional study in graduate school.

The courses in Education at Pomona College (see page 110) offered as integral parts of a liberal collegiate curriculum and means of satisfying certain of the requirements for certification California and elsewhere. The college believes that preparation teaching is enhanced when the academic subjects and the educatio process are studied together, thus it strongly recommends that so work in Education and Psychology accompany undergraduate c centrations in the teaching fields.

The post-graduate study for elementary and secondary credent may be taken at the Claremont Graduate School or at any ot college accredited by the state for teacher education. Each gradu school prescribes its own program for fulfilling credential requ ments and these programs vary greatly. Students planning to sec teaching credentials are advised to consult with the Educat Department early in their college careers to avoid unnecessary del in completing these requirements.

THE CLAREMONT GRADUATE SCHOOL - POMONA COLLEGE PROGRAM FOR THE SECONDARY CREDENTIAL AND THE MASTER OF ARTS DEGRE

Pomona College and the Claremont Graduate School have institu arrangements to facilitate and encourage programs leading to secondary credential and the Master of Arts degree, either i teaching field or in some aspect of the field of professional educat

By taking nine units of work as specified below during the undergraduate years, either through regular Pomona College courses or by means of graduate courses taken during the senior year, a student will be able to meet all specific credential requirements by the end of the first semester of his graduate year and have the second semester for work in his chosen area of specialization. To varying degrees, this will apply at other graduate institutions as well. The specified courses are: Education 101; Psychology 107; and one of the following: Psychology 168; Education 217 (CGS), Education 220 (CGS), or Education 256 (CGS).

SOCIAL WORK

The field of social work covers a vast number of positions in agencies designed to meet human needs. The best training for a career in social work includes an undergraduate degree from a liberal arts college, preferably with a concentration in the social sciences, and a two-year program of graduate work in a professional school of social work. Some positions in public assistance and in group work are open to holders of the B.A. degree; others require one or two years of graduate training. Students interested in social work careers are urged to consult the Chairman of the Department of Sociology and Anthropology, who is qualified to advise on course offerings in the College, graduate school requirements, and specific job qualifications.

THEOLOGY

Students planning to prepare themselves for Seminary or Divinity School training, with a view to entering the parish ministry or college teaching in religion, can most profitably fulfill their requirements for concentration in one of the following departments: English, History, Philosophy, Psychology, Religion, or Sociology; or in the inter-departmental program in Modern Social Institutions.

Students planning to prepare themselves for Seminary or Divinity School training with a view to entering the field of religious education, are advised to concentrate in Religion in their undergraduate studies.

The Curriculum

THE PURPOSE OF Pomona College is to prepare students for society which expects of them leadership in diverse roles a offices, humble or great. The college endeavors to help students toward a life in which professional achievement accompanied by personal happiness, cultural balance, and soci responsibility. Its program, therefore, includes courses intended f general education as well as courses designed for specialized stu and preprofessional training.

The immediate objective of general education, as expressed in t course requirements of the College, is to help the student develo

1. Ability to use the English language effectively, in reading, writing, and in speech.
2. Knowledge of scientific thought and method.
3. Understanding of the historical development of our civiliz tion.
4. Understanding of human society, its problems and its instit tions.
5. Understanding of the nature and operation of the Americ economic and political institutions.
6. Knowledge of literature and the fine arts.
7. Awareness of ethical and spiritual values.

With these purposes in mind, the College expects that certa courses be taken in the Freshman and Sophomore years.

To secure the benefits of intellectual discipline derived fro concentrated study, and at the same time, in many instances, prepare for professional training after graduation, every stude is required by the end of the sophomore year to select a field concentration in which he will complete not less than twenty-fo units of upper-division work during his Junior and Senior yea The field of concentration may be represented by one departme or may extend beyond departmental limits to include close related subjects. For students of outstanding ability and well-defin interests, the field of concentration may be developed into a pr gram of honors study. These requirements and programs of stu are described in detail in the following pages.

FACULTY ADVISERS

Each new student is assigned to a faculty adviser. Advisers to Freshmen are general advisers who assist Freshmen in the selection of courses and general adjustment to the academic life of the College. At the end of the student's first year and in the light of his academic interest an adviser is assigned with whom the student will work during the remainder of his college course. If at any time a change is deemed wise it is made through the Registrar's Office or Dean of Students.

SUMMARY OF REQUIREMENTS FOR THE DEGREE

Pomona College awards only the bachelor of arts degree. Commencement honors, *cum laude, magna cum laude,* and *summa cum laude,* are awarded on the basis of the over-all average of the student's work, and of the comprehensive examination.

Units: 126 units (semester hours) of work are required for graduation except for those students who, because of physical handicap or transfer from an institution not having the requirement, are excused from all or part of the required Physical Education. In such instances, and only by vote of the Classification Committee, students may graduate with as few as 120 units. (See Physical Education Activities.)

A "unit" consists of one recitation or lecture period, or one laboratory period a week for one semester. A recitation or lecture period covers fifty minutes; a laboratory period covers, in general, the time of three such periods. In order to complete the course in eight semesters one must take each semester an average of fifteen units of work exclusive of physical education activities.

Grade Points: In order to graduate, a student must not only earn a certain number of units, but also attain an average of at least C grade in all units for which he has registered in the Associated Colleges. An explanation of the grading system will be found on page 85.

Residence: A minimum of four semesters in full-time attendance is required for graduation. For transfer students entering with junior standing, this means the four remaining semesters. For all students, except those engaged in the C.T. program, both semesters of the senior year must be taken in full-time attendance.

Distribution Requirements: All students must satisfy the requirements for distribution as explained on page 89. These requirements should be met in the Freshman and Sophomore years, but their completion may be postponed to the Junior year. Postponement to the Senior year requires the permission of the Classification Committee.

Upper Division Requirements: In the Junior and Senior years all students must undertake a program of concentration leading to a comprehensive examination or its equivalent. (See page 90.)

Physical Education Activities: Physical Education Activities must
included in the registration of each student every semester, in accordan
with the student's classification, until a maximum of six units has been cor
pleted. Freshmen and Sophomores register for two activities each semeste
and Juniors and Seniors one activity. Exemption from this requirement
possible only by permission of the Classification Committee on the recor
mendation of the College Physician and the Department of Physical Educatio
Transfer students who met the Physical Education requirement of the instit
tion from which they transferred need take only the amount required for the
classification.

American History and Institutions: To be eligible for graduation
students are required by the laws of the State of California to pass examinatio
in American history and in American and California institutions, inclu
ing the provisions and principles of the United States Constitution and t
principles of California state and local government as established under t
Constitution of this State. While courses are helpful in preparing for t
examinations, it is not possible to satisfy the requirements by the passing
any Pomona College course or courses. Examinations to satisfy these requi
ments will be given semi-annually in September and in the spring on dat
which will be announced well in advance. Each candidate will be examin
once without fee, but if he fails to pass the first time, re-examination w
be given only upon presentation of a receipt from the Business Office for t
payment of the usual $2.00 fee for special examinations. Candidates who ha
failed once, however, must take re-examinations at the time scheduled f
the regular examinations. These examinations will be objective in charact
Any student who has not satisfied these requirements before the beginni
of the second semester of his senior year will not be considered a candida
for graduation and will not be eligible to take the comprehensive examinati
for that semester. Reading lists for those preparing for the examinations a
obtainable from the departments of History and Government. Members
those departments will offer a series of public lectures each spring which will
mature interpretations of the subject, but which will not in themselves provi
all the factual information necessary to pass the examinations. Students faili
an examination are advised to take a course in that field before attempting
again.

Foreign Languages: Although the College does not specify a knowledge
foreign languages as a requirement for the degree, all students are urged
take at least one year of foreign language study. Since several departme
require a foreign language in their programs of concentration, the stude
should ascertain the language requirement of the program he is planning
undertake, and if he is not already prepared to meet it, should include t
study of the required language in his Freshman and Sophomore years.

Graduation Fee: Every student expecting to graduate at the end of a
given semester must file an application for graduation at the Registrar's Off
not later than the beginning of his final semester and must include the gra
uation fee ($10.00) with the payment of his other fees at the time of su

gistration. Failure to comply with these two requirements will automatically clude a student from graduation that semester.

Requests for consideration as candidates for the Pomona College degree om former students who for any reason discontinued attendance before mpleting all requirements for graduation will not be considered unless subitted within seven years from the time the student normally would have aduated.

ACADEMIC REGULATIONS AND PROCEDURE

RADES AND GRADE POINTS: Each Candidate for graduation must earn an erage of at least C (i.e. twice as many grade points as units) in courses for nich he has registered in the Associated Colleges.

A (excellent) = 4 grade points per unit.
B (very good) = 3 grade points per unit.
C (average) = 2 grade points per unit.
D (passing) = 1 grade point per unit.
F (failure) = 0 grade points per unit. May not be made up except by repeating course.
I (incomplete due to illness)
W (withdrawn with permission)

All F, and I grades reported by instructors must be accompanied by aspecific statement in writing of the reason for the grade. In case of an I grade, the statement must include a detailed explanation of how the gade can be made up. A copy of this statement is given to the student. Al conditions for removing I grades must be met within seven weeks c the beginning of classes of the following semester, except that, in certain yar courses, the deficiency in the first semester may be removed by succsful completion of the work of the second semester, if the instructor so rommends. I grades not satisfactorily made up within this time limit aomatically become F.

The I mark is given where illness on the part of a student justifies the ginting of additional time for the completion of work. It may be changed t whatever grade the student earns. Instructors wishing to give an I grade f a justifiable cause other than illness must first receive permission to do so fm the Classification Committee.

An F grade can be made up only by repeating the course. Where the Fgrade is incurred in a Physical Education activity, the same course must b repeated when next offered. A student may not continue in a year course o er than Physical Education in which he has received an F the first sester. The making up of work which has received the F grade does n expunge the grade from the record. Although credit and grade points are a owed for the repeated work all units attempted and grade points earned a counted in computing the student's average.

The mark W is used where a student has withdrawn from a course in a ordance with the provisions outlined under Changes in Registration.

Amount of work: The College regulates the amount of work a studer is allowed to carry. The normal registration is 15-16 units of academic wor for each of eight semesters plus Physical Education activities and/or Militar Drill. In addition a student may elect for credit each semester not more tha two of the following: Band, Choir, English 61, Orchestra, or Play Productio The minimum full-time load is 12 units of academic work. Registrations abov 16 academic units require a recommendation from the student's adviser an the further approval of the Registrar. Registration below 12 units plac the student in Special Standing. A student admitted to the college as special student may be given regular standing only by action of the Admissio Committee. A regular student who drops to special standing may be readmitte to regular standing only by action of the Classification Committee. Speci students are not considered to be candidates for a degree.

Auditing of Courses: Students regularly enrolled in the Associated Colleg may, with the consent of the instructor, audit courses. Such arrangements w not be officially recorded and will not receive credit. An auditor may not parti ipate actively in course work and may not, therefore, request registration f credit after the normal deadline for requesting course registration. Perso not regularly enrolled in the Colleges may audit courses provided they obta the instructor's permission and pay the regular auditor's fee of $10 per cours

Quality of work: A student is expected to secure each semester twice many grade points as the total number of units of registration.

By the middle of each semester instructors are requested to report all studen doing unsatisfactory work for the period preceding the date of the report. addition to these general reports, instructors are encouraged to make repo at any time concerning individual students who are not in good scholas standing. Advisers and deans receive such reports and take such steps as a advisable in each individual case.

At the end of each semester a complete report is made on every stude This report becomes a part of the student's record and indicates his standi in the courses for which he has been registered.

The college may at any time require the withdrawal of a student if t quality of his work seems to warrant such action. Decision in every su case is reached by the joint action of the Student Affairs and Classificati Committees in consultation with the student's adviser.

Completion of work: To be counted as work completed in the cour all papers, reports, drawings, and other assigned exercises must be turned to instructors before the final examination.

Academic Record: All collegiate work for which a student registers co stitutes a part of the academic record, whether or not the work is complete Students failing to provide the Registrar's Office with transcripts of regist tions in other institutions may be subject to dismissal from the College.

Reading Period: A reading period of three weeks is provided at the e of each semester for certain upper division courses. Participation is at t option of the instructor. An instructor who desires to have a class particip in the program should announce that fact to the class at the beginning of t

nester. In such classes all regular course assignments, term papers, etc., are e prior to the beginning of the reading period, unless specifically assigned be done during that time.

Dismissal from Courses: A student who proves unable or unwilling to ry a course satisfactorily may be dropped from it by the Classification mmittee upon the recommendation of the instructor.

Class Attendance: Students are expected to maintain regular attendance all class appointments in the courses for which they are registered.

While there is no general college requirement, each instructor has the right establish such specific regulations regarding attendance as may seem best ted to his particular department.

Final Examinations: Seniors may not take final examinations in courses in l semester in which they take their comprehensive examinations. Final minations are required of all other students in all subjects save as excep- is are made by action of the Courses of Study Committee.

The schedule of final examinations is prepared by the Courses of Study mmittee. Instructors may not change dates of examinations without the sent of this Committee. Examinations for individual students may not be en at other than scheduled times except by consent of the Classification mmittee and on the presentation to the instructor of a Business Office ipt for a fee of two dollars ($2.00), unless this fee is remitted by the mmittee. Special examinations are rarely scheduled, except in cases of ous emergencies, such as illness.

Field Trips: Field trips are looked upon by the faculty as a legitimate part ertain courses. Permission for such trips is secured by instructors from the rses of Study Committee at the opening of each semester. Instructors ify to the Committee the names of students participating in these trips.

Pre-Registration and Registration: On appointed days shortly after the lication of the catalog in the spring and before Christmas vacation in ember all students must pre-register by filling out schedules listing their ice of subjects for the following semester. The fee for any change in this registration is three dollars.

ew students pre-register and register on announced days at the opening ach semester.

egistration is completed for all students by the payment of tuition on pointed days at the beginning of each semester.

he fee for late pre-registration or late registration is $2.00 for the first econd day following the appointed days, and $1.00 additional for every da thereafter to a maximum of $10.00.

udents are not allowed credit for courses for which they are not formally stered.

udents may not enter courses later than two weeks from the beginning of work.

Changes in Registration: Upon application to the Registrar's Office and the approval of his advisers, a student wishing to modify his schedule udies by addition or substitution of courses may do so within two weeks of

the beginning of class work. All students except those registering for the firs time are required to pay a change fee of three dollars. No change of registratio is official unless the student has complied with the procedure established by th Registrar's Office.

Students withdrawing from laboratory fee courses within three weeks c the beginning of classes will be refunded the full fee. One-half the full fe will be refunded to those withdrawing in the following five-week perio but after eight weeks from the beginning of classes no laboratory fees will b refunded.

The last date for withdrawing from a course without penalty is one wee after the date of the mid-semester low grade report. Thereafter, the droppin of a course by a student shall entail for him a grade of F for the cours except as circumstances may, in the judgment of the instructor and the Class fication Committee, warrant a grade of W.

Matriculation: Matriculation implies the proven ability to carry colleg work. To this end the standing of all students is provisional until after the have been in full time attendance for one semester. At that time those ne students are matriculated who have shown themselves in accord with the spir of the College, have carried a minimum of 12 academic units, and have mad at least an over-all average of C in all work attempted during their term residence. For those matriculating at the end of their first semester a publ matriculation ceremony is held early in the second semester.

Students failing to matriculate at the end of their first semester may b matriculated at the end of any subsequent semester in which they have carrie a minimum of 12 academic units provided they have met all the above requir ments including an over-all average of C on all work attempted during the whole period of attendance.

Students are not candidates for a degree until they have matriculated.

The Faculty Regulation on English:

For many years Pomona College has had a regulation which provides th faculty members report to the Faculty Committee on English all studen whose use of English is unsatisfactory. Habitual and flagrant misspelling considered a deficiency in English. On the recommendation of this Committ a student whose English is persistently unacceptable may be required to with draw from the College.

The faculty has adopted the following procedures: (1) Any student reporte to the committee during one semester must demonstrate to the satisfaction the committee his ability to write adequate English before the end of h next semester in residence, or he will be required to withdraw until he h satisfied the requirement of the committee. A student who has been report before the beginning of the second semester of his senior year will not granted his degree until he has demonstrated his proficiency in English to t Committee. (2) A student who enters with advanced standing must take examination in English upon entrance. If he fails this examination and does n meet the requirement of the committee by the end of his first year in residenc he will be required to withdraw until he has fulfilled it. (3) A student wh receives a grade of C- or lower in English 1a must take an examination

nglish at the end of the first semester of his sophomore year. If he fails t s examination and does not meet the requirement of the committee by the d of his sophomore year, he will be required to withdraw until he has fulfilled it. (4) Ordinarily, a student who has come under the jurisdiction of te English Committee may demonstrate his proficiency in English by passing ce of the examinations which the committee will administer. There will be a least three such examinations each semester, including one before the ening of classes and one on the final day of classes. No special examination ill be given.

REQUIREMENTS FOR DISTRIBUTION

All students must satisfy, by the end of the Junior year, the following requirements for distribution. Distribution requirements shall be met only by te Pomona College courses listed below unless exception is granted by the Classification Committee. Students from other institutions who plan to transfer to advanced standing in Pomona College are advised to scrutinize their programs carefully to be sure they have taken the required work and to consult the Registrar concerning any questions as to the acceptance of credit.

1. *English* 1a, 1b. An Introductory Course. A few students who make exceptionally high scores on the College Board Examination and also on an exercise in composition set by the Department of English are exempted from *English* 1a *and are enrolled in English* 1b *in the First Semester.* If they wish, such students may take the *year* course, which is a study of composition and literature on the college level. Remedial work in English below the college level is under the supervision of a special faculty committee.

2. *A year course in a biological science.* Biology 1, Botany 12 (or Biology 2) and 15; Zoology 1 or 11.

3. *A year course in a physical science:* Astronomy 1 or 61; Chemistry 1 or 2; Geology 1 or 51 and 52; Physics 1; Physics 51.

Note: A student may satisfy the requirement in either Group 2 or Group 3, but not in both, by offering for admission a recommended unit of high school work in one of the sciences listed in the Group from which he wishes to be excused.

4 and 5. *Two year-courses in the social sciences:* History 1a-1b; Economics 51 and 52; Government 51 and 52; Sociology, any 2 of the following: Sociology 51, 52 or Anthropology 53; Economics 51 and Government 52. Normally History 1a-1b will be taken as one of the two courses.

Note: Sociology 51 and 52 constitute the integrated year course in sociology, but 51 or Anthropology 53 and any *two* upper division courses in the Department also meet the requirement. These need not all be taken in the same year.

6. *A year course in literature, art or music:* This requirement may be met by a course primarily concerned with the appreciation of literature rather than with the mastery of language, or by a year course in art or music. Acceptable courses are:

a. English 50 or six units from English 50a, 56, 57, and 58. Optional for Juniors and Seniors: English 105, 160.

b. In the classics and in modern European languages, any course, i the original or translation, numbered above 50, except courses i composition and conversation.

c. Any year course of not less than four units in art or music.

7. *A year course in philosophy or religion*: Philosophy 57; two courses fron the 110, 111, 112 series; Religion 1, 2; 65.

REQUIREMENTS FOR CONCENTRATION IN THE UPPER DIVISION

All students must make a tentative choice of a major field of concentratio during the Freshman year and a definite choice by the end of the Sophomor year. During their first two years students will be expected to complete th basic courses required by the department or departments of their choice.

Each student's program of concentration shall culminate in a final writte comprehensive examination over the entire field in which he has concentrated The student must pass this examination in order to qualify for graduation. I a few departments research projects take the place of the written examination

No student is permitted to take both the Comprehensive Examination an final examinations in courses the same semester.

The Comprehensive Examinations must be taken at the officially schedule times. Students who have failed Comprehensive Examinations may reques permission to retake them at the opening of the college year and at the en of each semester. Such applications must be in the hands of the departmen concerned by September 1, December 1, or April 1. A fee of $10 will b charged for a re-examination which is taken at other than the times set fo a regular comprehensive examination. All students who intend to take th regularly scheduled comprehensive examinations must file an applicatio with the Registrar not later than the beginning of the semester in which th examination is to be taken.

In the event that an undergraduate does not take all or part of his Compre hensive Examination due to illness, he will receive an "I" for the part or part of the examination not taken. It is the responsibility of the undergraduate wh does not take a Comprehensive Examination due to illness to inform th department giving the examination at the earliest possible time.

A program of concentration leading to the comprehensive examination mus include not less than twenty-four hours and not more than thirty-six hour of work in courses numbered over 100 in the chosen field. These limits appl to that part of the student's program on which the comprehensive examina tion will be set.

For the entire four years of college, not more than a total of fifty-two unit in any one department (in Music not more than a total of sixty units) ma be counted toward graduation.

A few concentrations have been arranged so as to permit a combination o courses in various departments. The requirements for concentration in an department will be found before the list of courses offered by the department

HONORS STUDY

onors study consists of a carefully planned program of tutorial work together ith related seminars and courses carried out under the direction of a faculty ember. Pomona College has offered this type of instruction since 1924 for e student who shows the capacity and inclination for more than average tellectual achievement and self-direction in his study. An Honors program rmits freedom from a considerable part of academic routine during the nior and Senior years and thus makes it possible for an individual to gain wider and more profound knowledge of a chosen field and its ramifications an the usual curriculum permits.

Conduct of Honors Programs: General administration of Honors work is sted in the Honors Committee which reviews individual programs and ministers the faculty regulations regarding them.

Ordinarily a student enters Honors study at the beginning of his Junior ar, and in no case may he be admitted after the beginning of his Senior ar. A minimum grade-point average of 3.0 is normally required for enroll- ent in Honors study. In addition, the recommendation of the department which the student will work is necessary.

The number of hours allotted to Honors study must be not less than 12 nor ore than 18. Within these limits a student may be excused from formal asses. The method of Honors study varies; it may be carried on by tutorial nferences or in seminar or laboratory projects. The general requirement hich limits to a total of 52 units the work which may be taken in any one partment applies also to Honors programs.

Application forms for admission to Honors study may be obtained at the egistrar's office. They should be filled out in close consultation with the culty member with whom the program is to be carried on.

Evidence of the success of the student in his Honors work is measured by e quality of the thesis or project with which such a study normally culminates d by written and oral examinations. All or part of the Senior comprehensive amination in a field of study usually forms the written Honors examination that field. The oral examination will pursue further topics considered in the itten examination as well as subjects related to the thesis or project carried t by the student.

A student's performance in his Honors study and examinations is judged his department, the board which conducts his oral examination, and is viewed by the Honors Committee. A student who has maintained in all his ork a grade-point average of 3.0 and who has met successfully all the quirements of his program of Honors study will be graduated with a nota- n of that accomplishment. He will also be eligible for such general com- ncement honors as may be indicated by his whole record.

A student who fails to meet the standard of his Honors program as a whole, t who completes work worthy of credit in the hours allocated to Honors, ll receive credit and grades for the latter but will not receive notation of an onors program completed upon his graduation.

Courses of Instruction

ELEMENTARY courses numbered below 50 are designed primarily for the freshman year. Courses numbered 50 to 99 are either those which follow the lower course or are the more advanced beginning courses. Courses numbered over 100 are for juniors and seniors and may not be entered by students without previous work in the same field, except by written permission of instructors. Courses numbered NC carry no academic credit. In some departments a definite sequence of courses must be followed.

The hyphen in a course number designates that credit will not be allowed for only one semester of the year course. When course numbers are connected by a comma, credit is given for a single semester, but unless a passing grade has been received for the first semester of the course entrance to the second semester is by permission of the instructor.

Any course may be withdrawn if the enrollment is less than five.

Except by special permission, credit for only one unit of work in a department is not allowed.

COURSES IN THE ASSOCIATED COLLEGES

Following the departmental offerings of Pomona College are listed certain courses in Scripps College and Claremont Men's College open to Pomona sophomores, juniors and seniors under approved conditions. Normally only those courses so listed are open to Pomona College students. It should be noted that most of the Scripps College courses are year courses and consequently credit cannot be allowed for only one semester. To enroll in courses other than those listed, students must first obtain a permission slip from the chairman of the corresponding department at Pomona. Each regular student in residence in Pomona College shall, however, select not less than half of his registration each academic year from courses in Pomona College. Normally freshmen will take their entire programs of study in the college of their residence. In a few departments involving the use of physical equipment and laboratory space, such as art and the sciences, it is necessary to impose limits on the exchange privileges.

Certain courses in the Claremont Graduate School are also open to Pomona seniors who are concentrating in the fields in which the

urses are offered. Short titles for these courses are given following partmental offerings. For fuller description consult the catalog the Claremont Graduate School. Permission to enroll in graduate urses must be secured from the chairman of the department in hich the senior is concentrating and from the instructor giving e course.

Where a course in Scripps, Claremont Men's College, or the raduate School duplicates the material of a Pomona course, credit ill not be given for both.

DIVISIONS

he courses in the Pomona College curriculum are arranged in ree divisions as follows:

IVISION I [*Humanities*] Art, Chinese, Classics, Comparative Literature, English, German, Music, Philosophy, Romance Languages, ussian, Speech and Dramatics.

IVISION II [*Natural Sciences*] Astronomy, Biology, Botany, hemistry, Geology, Mathematics, Military Science, Physics, Psyology, Zoology.

IVISION III [*Social Sciences*] Economics, Education, Geography, overnment, History, Oriental Affairs, Physical Education, Religion, Sociology.

DIVISIONAL COURSES FOR SENIORS

Beginning in 1957-58, and under a grant made to the college by the Carnegie rporation of New York, three divisional courses will be offered annually, one i the Humanities, one in the Social Sciences, and one in the Natural Sciences. ese courses aim to help students gain a perspective on their field of concention, by encouraging them both to explore some of the interrelations between eir own subject and other related fields and to examine some of the contual problems, methodological, cultural, and philosophic, which the various ecialized disciplines may overlook. The staff and specific topics studied will y from year to year. Admission will be limited to seniors majoring in one the departments of the relevant division, except that (depending on the pics being studied) some departments not formally within a given division y be regarded as providing adequate background preparation. Where interptation is required, the chairman of each course should be consulted.

HUMANITIES

11a, 111b. Turning Point in Western Culture, 1890-1930. *Mr. Meyer, Mr. Mulhauser, Mr. Selz.* The cultural history of Europe during this limited period as expressed in art, literature, political economy, social thought, phil-

osophy, music and science. Problems of rationalism and the anti-rational, co lectivism vs. individualism, realism and abstraction, moral and econom progress vs. wars of annihilation, etc. will be discussed and some underlyi causes investigated. 3 units. *MWF, 8.*

SOCIAL SCIENCES

111a, 111b. THE INDIVIDUAL AND THE NEW LEVIATHAN: PROBLEMS OF LARG SCALE ORGANIZATION. *Mr. Cook, Mr. Jones, Mr. McDonald.* A study of son of the problems created by "bigness" in modern economic and political organ zations, including such questions as the impact of technology on culture, th nature of the internal and external restraints on organizational size, the soci and political implications of large concentrations of power, the change fro an individualistic to a group ethic, and the consequences for individual ide tity and personality structure. 3 units. *MWF, 9.*

NATURAL SCIENCES

111a, 111b. TURNING POINT IN PHYSICAL SCIENCE. *Mr. Becker, Mr. Fulle Mr. Miller.* This course will be a study of evolving scientific methods, shown in a number of cases where the concepts, or approach of a particul science changed fundamentally. Examples will be drawn from physics, chem istry, and mathematics. Both commentary and original source material w be used where available, and the student should anticipate more extensiv reading and writing than is found in the usual course in science at the seni level. Prerequisites: senior standing with major subject in one of the science and mathematics 65 or the equivalent. Arranged.

Anthropology

See Department of Sociology and Anthropology.

Art

Three types of concentration are open to students of art within the departmen the History of Art and the Practice of Art and Pre-Architecture trainin Specialization may be determined in the second year, but correlation betwe the history and practice of art is maintained.

Art 1 is normally a prerequisite for all advanced courses in the Departmer

Not more than 16 hours of applied art courses numbered under 100 a accepted toward graduation.

A reading knowledge of French or German is strongly recommended. many graduate schools candidates for the degree of Master of Arts are r quired to have a reading knowledge of *two* foreign languages.

CONCENTRATION: HISTORY OF ART

wer Division Requirements: History 1, Art 1, 9, or History 1, Art 3, 9, 51.

pper Division Requirements: 30 units of upper division courses, including units of art history and Art 178a and b.

CONCENTRATION: PRACTICE OF ART

wer Division Requirements: History 1, Art 1, 9 and 61 or 65, (or Art 3, 9, , and 61 or 65).

pper Division Requirements: 30 units of upper division art courses. In the ctice of art, 16 units including Art 120 and 6 units of Art 185 or 10 units of t 162. In the history of art 12 units.

CONCENTRATION: PRE-ARCHITECTURE

wer Division Requirements: Art 1, Art 52, Art 61, Mathematics 1 and 65 or thematics 50; Physics 51, Physics 52; Engineering Drawing 7, 40. *Recommended,* Art 9.

per Division Requirements: 24 units, 18 of which are to be selected from Department of Art and 6 from courses offered by the Departments of thematics and Physics.

1b. Introduction to the Visual Arts. *Mrs. Fulton, Mr. Grant.* The ments of art and their formal organization in theory and practice. Introtion to the technique, the history and the criticism of art. No previous ining in art is expected for this course. 4 units. 3 sections. Lecture *MW, 9, 1:15.* Studio *MW, 1-3, 3-5, TTh, 7-9 p.m.*

HISTORY OF ART

-51b. Survey of the History of Western Art. *Mr. Selz.* First semester: n the prehistoric period through the Gothic era; second semester: from the naissance to the contemporary scene. This course or its equivalent is mally a prerequisite for advanced courses in the history of art. 3 units. mitted 1957-58.)

, 52b. History of Architecture. *Mr. Hill.* First semester: Architecture the related visual arts in antiquity and the Middle Ages. Second semester: hitecture and the related visual arts from the Renaissance to the present. nits. *MWF, 10.*

a, 101b. Ancient Art and Archaeology. *Mr. Carroll.* First semester: the of Egypt, the Near East, Crete and Greece through the 5th century. Second ester: Hellenistic Greece and the Roman Empire. 3 units. *TThS, 10.*

Early Medieval Art. *Mr. Hill.* A developmental history of Early istian, Byzantine and Migration arts, Carolingian, Ottonian, and protonanesque architecture, sculpture and painting. 3 units. (Omitted 1957-58.)

Romanesque and Gothic Art. *Mr. Hill.* Architecture, sculpture and ting in France, Italy, Germany, Spain and England from the 12th to the century. Second semester. 3 units. Arranged.

111. The Italian Renaissance. *Mrs. Fulton.* Painting and sculpture Florence and Siena from Giotto to Michelangelo. 3 units. First semest *MWF, 2:15.* (Omitted in 1957-58.)

112. Mannerism and Baroque in Southern Europe. *Mrs. Fulton.* The a of Italy and Spain from Titian to Velasquez. 3 units. Second semester. *MW 2:15.* (Omitted in 1957-58.)

113. Northern Renaissance. *Mrs. Fulton.* Emphasis on the painting of t Netherlands and Germany from Van Eyck to Dürer. 3 units. First semest *TTh, 1:15-2:30.*

114. Northern Baroque. *Mrs. Fulton.* Emphasis on Painting in Flanders a Holland from Breughel to Rembrandt. 3 units. Second semester. *TTh, 1:1 2:30.*

117a, 117b. Asian Art. *Mr. Davidson.* Painting, sculpture, architecture a minor arts of India, China, Japan and surrounding areas in relation to t religious, philosophical and other cultural conditions which affected their p duction. Special emphasis on the relationships between the arts and Buddh and Hindu beliefs. First semester: Early China and India. Second semest Later China and Japan. 3 units. *TThS, 9.*

131. American Art. The art of the United States and Mexico from t Colonial period to the present. 3 units. (Omitted in 1957-58.)

135a, 135b. Modern Art. *Mr. Selz.* First semester: from the Fren Revolution through Impressionism. Second semester: from Impressionism the present. 3 units. *MWF, 8.* (Omitted 1957-58.)

190a, 190b. Problems in the History of Art. *Mr. Selz.* The study of particular artist, period, school or movement in art or art theory. Offered p marily for majors. 3 units. Arranged.

Pre-Columbian Art in the Americas. See Sociology and Anthropology 1 This course includes the material formerly presented in Art 121a. (Pre-Colu bian.)

PRACTICE OF ART

3a-3b. Design. *Mr. Grant.* A basic course investigating the fundamentals design as applied to painting and drawing. 2 units. (Omitted 1957-58.)

9a-9b. Beginning Sculpture. *Miss Waring.* A basic course in sculptu comprising a study of the nature of form. Consideration of sculptural te niques and materials. 2 units. *TTh, 3:15-5:05.*

61a, 61b. Drawing. *Mr. Hammersley.* An introductory course investigati various drawing problems and methods as applied to the human figure, s life and landscape. Completion of 1a-b or 3a-b or permission of the instruc is required. 2 units. *TTh, 9-11.*

65a, 65b. Intermediate Sculpture. *Miss Waring.* Continuing study of t nature of form. 2 units. *TTh, 3:15-5:05.*

105a, 105b. Advanced Drawing. *Mr. Hammersley.* 2 units. *TTh, 9-11.*

:0a, 120b. Painting. *Mr. Hammersley.* A course investigating various paint-i3 problems and methods as applied to still life, the human figure and l idscape. The painting course is essentially a continuation of the drawing c ss, with the addition of an emphasis on the use of paint. 2 units. *TTh, 1 5-3:05.*

12a, 162b. Advanced Sculpture. *Miss Waring.* A course open only to ad-vaced students of ability for the development of original problems in various r dia. May be repeated for credit. 1 to 3 units. *TTh, 3:15-5:05.*

15a, 185b. Problems in Painting and the Graphic Arts. *Mr. Grant* or *M. Hammersley.* Opportunity is given for the pursuit of individual projects t suit the interest and ability of the student. May be taken under both in-s uctors concurrently, and can be repeated for credit. 1-3 units. Arranged.

AVAILABLE AT SCRIPPS COLLEGE

I 121. Painting. *Mr. Dike, Mr. Kuntz.* Prerequisite II-2 or equivalent. One o two year course. Two sections. *MWF, 1:15-4:05, TTh, 1:15-4:05.* 3 hours a anged.

I 22. Weaving. *Mrs. Stewart.* One or two year course. Prerequisite II-2 or e uivalent. By permission of instructor. *MWF, 1:15-4:05.*

I 23. Ceramics. *Mr. Soldner.* One or two year course. Prerequisite II-2 or e uivalent. Two sections. *MWF, 1:15-4:05, TTh, 1:15-4:05,* and 3 hours ar-r ged.

I 25. Graphics. *Mr. Darrow.* Year course. Prerequisite II-2 or equivalent. C en to juniors and seniors. *MW, 4-6* and arranged hours.

I 26. Design. *Mrs. Ames.* One or two year course. Prerequisite II-2 or equiv-a nt. Open to juniors and seniors. *TTh, 1:15-4:05* and 3 hours arranged.

I 30. Sculpture. *Mr. Stewart.* One or two year course. Prerequisite II-2 or e uivalent. *MWF, 1:15-4:05.*

I 41. Architectural Design and Planning. *Mr. Criley.* Prerequisite II-2 o equivalent and permission of instructor. First semester. *MW, 1:15-4:05* and 3 ours arranged.

I 43. Contemporary Art. *Mr. Hill and Staff.* Year course. *MWF, 8.*

I 75. Colloquium in Art. *Mr. Greene.* Open to seniors by permission of i structor. Arranged.

Astronomy

T Frank P. Brackett Observatory possesses a large variety of astronomical e uipment. The major telescope is a newly rebuilt 12″ Newtonian-Cassegrain re ctor, completely equipped for visual, photographic or photoelectric work. Su sidiary telescopes include a 6″ and a 4″ refractor, both of professional q lity. An 8″ Schmidt Camera will be added to the facilities shortly.

Additional equipment includes a 40 ft. solar telescope, a 13 ft. spectroh scope, a 3″ meridian transit, and a 15 ft. Littrow grating spectrograph.

A minimum program for concentration in Astronomy, with a mino Mathematics and Physics, must include Astronomy 61a, b, 156a, b, Physics b, 113a, b, 153, 101a, b and Mathematics 65a, b and 151 a, b. For major Astronomy intending to proceed to graduate study, the following courses also recommended: Astronomy 180a, b, Physics 141a, b and Mathematics 1 b. The student should possess a reading knowledge of French and Germa

1a, 1b. Elementary Astronomy. *Mr. Routly.* A descriptive account of solar system, constellations and galaxy. Periodic observation of interes celestial objects with equipment at the Observatory. Field trips to the as nomical centers of the region. No prerequisites. 3 units. *TThS, 10.*

61a, 61b. General Astronomy. *Mr. Routly.* A more thorough versio Astronomy 1. Additional topics include astronomical instruments, cele mechanics, navigation, stellar types, spectral classification, etc. Labora periods are compulsory and form an integral part of the course. Prerequi Mathematics 1a, b taken previously or concurrently. Laboratory fee $4.00 semester. 4 units. Class *MWF, 10.* Laboratory to be arranged.

156a, 156b. Astrophysics. *Mr. Routly.* The application of physical techni to astronomical problems of current research interest. The course co the elements of atomic and molecular spectroscopy, stellar atmospheres, st interiors and interstellar space. Prerequisites: Mathematics 151a, b ta previously or concurrently and Physics 51a, b. No previous training in Ast omy required. Course intended for majors in Astronomy and other quali science students. 3 units. *MWF, 11.*

180a, 180b. Selected Topics in Astronomy. *Mr. Routly.* Intended for ma in Astronomy proceeding to graduate study. Contents will consist of to not covered in Astrophysics 156a, b. Some suitable investigation, equivalen a senior thesis, will be conducted by each student during the year. Prerequi Astrophysics 156a, b, taken previously or concurrently. 3 units. Classes t arranged.

Biology

Requirements for Concentration: Botany 12, 15, 75, 107, 117, and 6 units f 103, 105, 123, and 175; Biology 112; Zoology 1 and 37 (or 121 and 1 additional upper division units in Botany, Biology, or Zoology to mak total of 30 in a well-balanced program; at least six units chosen from Che try, Physics, or Geology.

1a. General Biology. *Mr. Phillips.* A general course designed for t who do not intend to take further work in the biological sciences. Stud who have had high school courses in Biology, Botany, or Zoology sh take Botany 12 and 15 or Zoology 1 or 11 instead of Biology 1. Illustrat drawn largely from the plant kingdom. Laboratory fee $6.00. 3 units. F

or second semester; may precede or follow 1b. Class, first semester, *MWF, 10;* second semester, *MWF, 11.* Laboratory, *W, 1:15-2:35* or *2:45-4:05.*

1b. General Biology. *Mr. McCarthy, Mr. Ryerson.* With Biology 1a forming a year course; illustrations drawn largely from the animal kingdom and human biology. Lectures, demonstrations, and laboratory. Laboratory fee $6.00. 3 units. First or second semester; may precede or follow 1a. Class, first semester, *MWF, 11;* second semester, *MWF, 10.* Laboratory *M, 1:15-2:15,* or *3:15.*

105. Bacteriology. *Staff.* General study of bacteria including their importance in disease and industry. Laboratory exercises on methods of culture and examination. Prerequisite: one year of biological work. Laboratory fee $8.00. 4 units. First semester. Lectures *MWF, 9.* Laboratory *MW, 2:15-4:05.*

112. Genetics. *Mr. McCarthy.* This course considers modern developments in the study of heredity and evolution and their general application to plant and animal breeding and to eugenics and race questions. Prerequisite: one year of biological work. 3 units. Second semester. *MWF, 11.*

159. History of Biology. *Staff.* A historical consideration of the development of biological theories and concepts and their influences upon society. 3 units. First semester. *MWF, 11.*

Botany

Botany Concentration: lower division courses. Botany 12 (or, in approved cases, Biology 1a), 15, 75 (at least 3 times). upper division courses. Botany 103, 105, 107, 117, 123, 175, and 199. Biology 112. related fields, Zoology 1 or 11; high school chemistry is required; Chemistry 2 (or 1) is recommended (students emphasizing plant physiology should have additional courses); high school physics or Physics 1 or 51 or Geology 1 or 51. In some instances the Botany Department may approve substitution of 6 units of upper division courses in Chemistry, Physics, Geology, or Art for one 3-unit required course in Upper Division Botany. Prospective candidates for graduate work should consult the department concerning foreign language requirements for advanced degrees. English 63 is recommended.

Seniors with concentration programs in botany or in biology emphasizing botany are required either (1) to present a satisfactory paper and to pass an oral examination on the field of the paper, or (2) to pass the senior comprehensive examination.

Plant Collection: All students concentrating in botany should consult Mr. Benson concerning the plant collection built up in various courses. This is a graduation requirement, and the collection must be submitted for inspection at the time of the senior comprehensive examination. Credit for individual work on the collection may be had by registration in Botany 75. This course *must be taken in the second semester of each year, including the last semester*

before graduation (in order to bring the collection into good order before it is submitted for the final inspection).

Biology Concentration: See Biology listing and mimeographed materials at the Botany Department.

Note: Any Course numbered 100 to 175 may be taken for graduate credit.

12. General Botany. *Mr. Tillett and Mr. Phillips.* An elementary study of biological principles with emphasis upon the microscopic structure and the physiology of flowering plants, evolution, and heredity. Laboratory fee $5.00. Ordinarily 3 units, but sometimes by permission 2 units. First semester. *MWF, 11,* must be kept open for class. Laboratory *T, 1:15-3:05.* Field trips arranged.

15. Field Classification of Plants. *Mr. Tillett.* An elementary discussion and field course in classification of primarily the flowering plants but also of ferns and cone-bearing trees. Botany 75 is open concurrently as an elective (1 or 2 units). Students concentrating in botany or biology with emphasis on botany must register concurrently for 2 units of Botany 75. Laboratory and field trip fee $5.00. 3 units. Second semester. Class and field, *TTh, 1:15-3:05.* There are some longer trips *(Th, 1:15-4:05* or arranged).

75. Individual Plant Classification. *Mr. Tillett.* Classification of vascular plants (ferns, cone-bearing trees, and flowering plants); association of species in natural vegetation. The student collection of specimens is used for developing a comparative method of plant identification. May be taken for 1 or 2 units as an elective; 2 units are required concurrently with Botany 15 for those concentrating in botany or in biology with emphasis on botany. May be repeated for credit. Laboratory fee $2.00. 1 or 2 units. *First enrollment,* second semester (concurrently with 15): (for 1 unit) either time according to subject emphasis; (for 2 units) *T, 3:15,* and 2 hours during *M, 1:15-4:05. Subsequent enrollments* (1 or 2 units): first semester, appointments and arranged; second semester, 2 hours during *M, 1:15-4:05* and arranged.

81. Elementary Botanical Problems. *Staff.* Individual laboratory work in such fields as (a) structure and classification of algae, (b) culture, special physiology, structure, or development of plants, (c) ecology, or (d) elementary research in any field of botany. Each semester, 1 or 2 units, but not more than 1 unit for the first enrollment. May be repeated for credit. Permission of the instructor required. Laboratory fee $2.00. Arranged.

103a, b. Plant Ecology. *Mr. Phillips.* The effect of environment upon plants of forests, deserts, chaparral, grassland, and woodland; ecological adaptation; analysis of plant communities; the major plant communities primarily of the United States; factors affecting plant geography. Prerequisite: Botany 12 or Biology 1a or permission of the instructor. Laboratory fee $8.00 and breakage deposit $5.00. 3 units. Class *MW, 9;* laboratory and field trips, *F, 1:15-4:05* and occasional longer trips. Given in alternate years. (Omitted in 1957-58.)

105. Flowering Plants (Classification). *Mr. Benson.* Evolution and relationships of orders and families; history, principles, and methods of classifica-

ion of the higher taxa. Prerequisite: Botany 15. Laboratory and field trip fee 16.00. 3 units. Class and laboratory, *TTh, 9-10:50.* Field trips arranged. Given n alternate years. (Omitted in 1957-58.)

07. Non-Vascular Plants (Morphology). *Mr. Benson.* Structure, develop- nent, evolution, and relationships of classes and orders of algae, fungi, mosses, nd liverworts. Prerequisite: Botany 12 or Biology 1a, or equivalent. Laboratory ee $5.00. 3 units. Second semester. Class and laboratory *TTh, 9-10:50,* field rips arranged. Given in alternate years. (Omitted in 1957-58.)

17. Vascular Plants (Morphology). *Mr. Tillett.* Structure, development, volution, and relationships of the classes and orders of pteridophytes (ferns, tc.) and gymnosperms (cone-bearing trees); fundamental life history of owering plants. Prerequisite: Botany 12 or equivalent. Laboratory fee $5.00. units. Second semester. Class *MW, 10;* laboratory and field trips, *W, 1:15-4:05.* iven in alternate years.

23a, 123b. Plant Physiology. *Mr. Phillips.* Physiological processes and rinciples, including photosynthesis, germination, dormancy, water relations, ineral nutrition, respiration, growth and growth hormones, flowering and uiting. Prerequisite: Botany 12 or Biology 1a. Laboratory fee $10.00 each emester and breakage deposit $5.00. 3 units. Class *TTh, 10;* laboratory *Th, 15-4:05.* Given in alternate years.

27. Anatomy of Flowering Plants. *Mr. Carlquist.* Structure, life history, nd development of angiosperms (flowering plants). Prerequisite: Botany 12 equivalent. 3 units. First semester. Laboratory fee $5.00. Class *MW, 9;* boratory *M, 2:15-5:05.* Given in alternate years. (Omitted in 1957-58.)

57. Plant Microtechnique. *Mr. Carlquist.* Preparation of microscopic slides represent structure or development of plants or for cytological data. Partly dividual work. Prerequisite: Botany 12 or the equivalent; or permission of e instructor. Laboratory fee $7.00. First semester. 2 or 3 units. Class and boratory, arranged on *T* between *1:15 and 5:05.* Given in alternate years.

75. Evolution and Classification of Species. *Mr. Tillett.* Field studies on e evolution and definition of species: principles of organizing plant groups to genera, species, and varieties; choice of scientific names; description; ethods of preparation and documentation of scientific papers. Prerequisite: otany 12 or Biology 1a or Zoology 1; Botany 15; or permission of the structor. Laboratory and field trip fee $9.00. First semester, 3 units. Class *W, 10,* and either class *F, 10,* or a field trip *W, 1:15-4:05.* Longer trips ranged. Given in alternate years.

91. Advanced Botanical Problems. *Staff.* Individual work in any field of otany. The student may anticipate preparation of a thesis for the Master's egree by beginning a problem or continuing one begun in upper division ourses. Permission of the instructor required. Laboratory fee $2.00. 1 to 3 nits. Each semester. May be repeated for credit. Arranged.

99. Senior Seminar. *Mr. Phillips and Mr. Tillett.* Discussion of botanical roblems; preparation and illustration of scientific papers. Required of all

seniors in botany or in biology with emphasis upon botany; open to others. May be repeated for credit. 1 unit. Second semester. Arranged.

* * *

Graduate work in botany is offered through the Claremont Graduate School by the joint staffs of Pomona College and the Rancho Santa Ana Botanic Garden and the Graduate School. The facilities for research in plant classification are particularly good because the Pomona College Herbarium includes about 315,000 specimens and the combined herbaria more than 400,000. The libraries of both institutions have been developed primarily for work in this field, and the Garden has unusual facilities for experimental study of plants.

GRADUATE COURSES OPEN TO QUALIFIED UNDERGRADUATES

Note: The prerequisites listed below apply to Pomona College students. Written permission of the Pomona College department and permission of the instructor are required.

202a, b. History of Cultivated Plants. *Mr. Lenz.* An intensive study of the origin, development, and distribution of selected plants of economic importance. 2 units. Arranged.

210. Cytology. *Mr. Lenz.* Structure and function of the plant cell with special reference to nuclear phenomena. 3 units. First semester. Arranged. (Omitted in 1957-58.)

217. Algology. A general survey of the algae. Prerequisite: 107. 3 units. First semester. Arranged. (Omitted in 1957-58.)

220. Evolution. *Mr. Grant.* The genetic basis of evolutionary changes in populations of plants and animals. The topics discussed are variation, selection, drift, isolating mechanisms, evolutionary rates, and evolutionary trends. Prerequisites: 175 and Biology 112. 3 units. First semester. (Omitted in 1957-58.)

225a, b. Phylogeny of Angiosperms. *Mr. Munz.* Evolution of and relationships in flowering plants. Prerequisite: 105. 2 units. Arranged.

227. Morphology and Classification of Fungi. *Mr. Benjamin.* A general course in mycology. Prerequisite: 107. 4 units. First semester. Arranged.

237. Morphology and Classification of Bryophytes. *Mr. Phillips.* A survey of the liverworts and mosses. Prerequisite: 107. Second semester when there is sufficient demand. Arranged.

245. Plant Geography. *Mr. Munz.* The vegetation of the earth with reference to geological history, present distribution, and evolution. Prerequisites: 75, 103. First semester. Arranged. (Omitted in 1957-58.)

255. History of North American Floras. *Mr. Benson.* Interpretation of modern floras in the light of geologic history of Cenozoic floras. Prerequisites: 75, 103. Offered when there is sufficient demand. Arranged. (Omitted in 1957-58.)

Chemistry

ncentration Requirements: Chemistry 1, 59, 106, 107, 110, 111, 112, 158, 159; ysics 51, 52; Mathematics 1, 65.

e-professional Program: Students who plan to go to graduate school in emistry should take in addition to the courses listed above Chemistry 184, 5 and 187. This program has been approved by the American Chemical iety Committee for Professional Training of Chemists.

OLOGY-CHEMISTRY CONCENTRATION. See Zoology.

s: A fee is required for each laboratory course, to cover the cost of chemi-s. In addition a locker deposit must be made to cover breakage and loss of uipment. The unused balance of the deposit is returned at the end of the r.

1b. INTRODUCTORY CHEMISTRY. *Mr. Smith* and *Mr. Allen.* Beginning rse to acquaint the student with basic principles of chemistry and reactions he more common elements. Fee $6.00 each semester. Deposit $5.00 for the r. 4 units. Lectures, *MWF, 9;* laboratory *TTh* or *F, 1:15-4:05.*

2b. BIO-ORGANIC CHEMISTRY. *Mr. Hansch.* An introduction to the physi-principles of chemistry followed by a survey of organic chemistry and its plications to bio-chemistry. Fee $6.00 each semester. Deposit $5.00 for the r. 4 units. Lectures *MWF, 8;* laboratory *W, 1:15-4:05.*

, 51b. BASIC CHEMISTRY, QUANTITATIVE AND QUALITATIVE ANALYSIS. *Miss nenow.* Covers material of Chemistry 1, 59, and 106. The laboratory covers ntitative analysis first semester and qualitative analysis second semester. en to unusually well qualified freshmen by permission of instructor. Fee 0, deposit $5.00. 5 units. Lectures *MWF, 9;* laboratory *TTh, 1:15-4:05.*

QUALITATIVE ANALYSIS. *Mr. Fuller.* Separation and identification of the mon inorganic ions by semimicro techniques. The course is offered for 4 units. The 4 unit course contains additional lectures on the chemistry he elements and will be taken by students who have not taken Chemistry 1 s equivalent. Prerequisite: Chemistry 1 or consent of instructor. Fee $6.00, posit $5.00. 3 or 4 units. First semester. Lecture *TThS, 10;* laboratory *T* or *1:15-4:05.*

BEGINNING QUANTITATIVE ANALYSIS. *Mr. Fuller.* An introduction to vol-tric and gravimetric analytical procedures. The course is offered for 3 or 4 s. The 4 unit course contains additional lectures on selected topics of ganic chemistry and will be taken by students who have not taken mistry 1 or its equivalent. Prerequisite: Chemistry 59. Fee $8.00, deposit 00. 3 or 4 units. Second semester. Lectures, *TTh, 10;* laboratory, *M, 2:15-*, and *W, 1:15-4:05,* or *TTh, 1:15-4:05.*

ADVANCED QUANTITATIVE ANALYSIS. *Mr. Smith.* An introduction to ern instrumental analysis. Prerequisite: Chemistry 106 or equivalent. Fee

$8.00, deposit $10.00. 3 units. First semester. Laboratory *M, 2:15-5:05* and *TW, 1:15-4:05.*

110a, 110b. Elementary Organic Chemistry. *Mr. Allen.* The first semester devoted to the study of aliphatic compounds and the second semester to aromatic. Prerequisite: Chemistry 1 or equivalent. 3 units. Lectures *MWF, 8.*

111a, 111b. Introduction to Organic Laboratory Methods. *Mr. Allen.* Instruction in laboratory operations, qualitative organic analysis and organic preparations. Students concentrating in chemistry should take Chemistry 112a, 112b concurrently. Fee $6.00, deposit $10.00 each semester. 1 unit. Laboratory *T* or *F, 1:15-4:05.*

112a, 112b. Organic Syntheses. *Miss Semenow.* Advanced preparations to supplement the work of Chemistry 111. Fee $7.50, deposit $5.00. 1 unit. Laboratory *Th, 1:15-4:05.*

158a, 158b. Physical Chemistry. *Mr. Smith.* Prerequisite: Chemistry 106, Physics 51, Mathematics 65. Chemistry 110 may be taken concurrently. 3 units. Lectures *TThS, 10.*

159. Physical Chemistry Laboratory. *Mr. Smith.* Prerequisite: Chemistry 158a, b. (158b may be taken concurrently.) Fee $10.00, deposit $5.00. 3 units. Second semester. Laboratory *M, 2:15-5:10* and *TW, 1:15-4:05.*

181a, 181b. Use of Chemical Literature. *Mr. Allen.* Lectures and assigned problems on the methods for effective use of chemical literature. Prerequisite: Chemistry 110, German 1. 1 unit. Arranged.

184. Advanced Organic Chemistry. *Miss Semenow.* A survey of organic reaction mechanisms. Prerequisite: Chemistry 110, 158a. 3 units. Second semester. Lectures *MWF, 10.*

185. Advanced Inorganic Chemistry. *Mr. Fuller.* The lectures will include a discussion of atomic and molecular structure and such selected topics as coordination compounds, nuclear chemistry, and chemical statistics. Prerequisites: Chemistry 158 (may be taken concurrently). 3 units. First semester. Lectures *MWF, 10.*

187. Qualitative Organic Analysis. *Mr. Hansch.* The use of systematic methods for the identification of organic compounds. Prerequisite: Chemistry 110, and reading knowledge of German. Fee $7.50, deposit $5.00. 3 units. First semester. *T, 8* plus two arranged periods.

199. Undergraduate Research. *Staff.* Seniors may take 6 units of research in Physical, Organic or Analytical Chemistry, under direction of a staff member. The work may be taken in one semester or extended over two. A thesis is required. Prerequisite, average of B in chemistry courses and consent of instructor. Fee $3.00 per unit, deposit $5.00. Each semester. Arranged.

Classics

the interest of providing a maximum offering in Classics, a coordinated gram is offered by the departments of Pomona and Scripps College.

For concentration in Classical languages and literature a student is required take at least 24 units in courses numbered over 100 in Greek and Latin guages and 12 units in modern European languages (French and German ferred). A selected reading list from Greek and Latin authors must be npleted by the student in class work or outside reading to the satisfaction the department. Additional courses in ancient and medieval history, losophy, Continental and English literature, and modern European guages are recommended.

nt Concentration: Philosophy and Classics. See Philosophy.

Greek

-51b. Elementary Greek. *Mr. Carroll.* Greek grammar and syntax for inning students. 3 units. *MWF, 8.*

a, 101b. Intermediate Greek. *Mr. Carroll* or *Mr. Palmer* (*Scripps*). For dents with Greek 51 or equivalent. Selected readings from Classical and w Testament Greek. 3 units. Arranged.

a, 182b. Greek Readings and Composition. *Mr. Carroll.* For students h Greek 101 or equivalent. This course may be repeated for credit with mission of the department. 3 units. Arranged. (Omitted in 1957-58.)

Latin

b. Elementary Latin. *Mr. Carroll* or *Mr. Palmer* (*Scripps*). Latin mmar and syntax for beginning students. 3 units. *MWF, 8.* (Omitted in 7-58; offered at Scripps.)

, 57b. Intermediate Latin. *Mr. Carroll* or *Mr. Palmer* (*Scripps*). For dents with one or two years of secondary school Latin or Latin 1. Readings n Cicero, Vergil and Ovid with grammar review. 3 units. Arranged.

, 117b. Roman Writers of the Republic. *Mr. Carroll* or *Mr. Palmer* ripps). For students with three or more years of secondary school Latin or n 57. First semester: Roman Comedy; second semester: Lucretius. 3 units. anged. (Omitted in 1957-58; offered at Scripps.)

, 118b. Roman Writers of the Empire. *Mr. Carroll* or *Mr. Palmer* ripps). For students with three or more years of secondary school Latin Latin 57. First semester: Lyric Poetry; second semester: The Roman er. 3 units. Arranged. (Omitted in 1957-58.)

, 181b. Latin Readings and Composition. *Mr. Carroll* or *Mr. Palmer* ripps). For advanced Latin students at the permission of the instructor. course may be repeated for credit with permission of the department. 3 s. Arranged. (Omitted in 1957-58.)

Greek and Roman Literature in Translation

160a, 160b. Classical Mythology and Literature in English Translation *Mr. Carroll.* Mythology and the growth of literature with selected readings i Graeco-Roman epic, lyric, drama and prose literature. No prerequisite. 3 units *TThS, 9.* (Omitted in 1957-58.)

Available at Scripps College

I-101. The Latin Lyric. *Mr. Palmer.* First semester. Arranged hours.

I-102. The Roman Letter. *Mr. Palmer.* Second semester. Arranged hours.

I-106. Greek and Roman Comedy and Satire. *Mr. Palmer.* Year course Arranged. (Omitted in 1957-58.)

I-107. Greek and Roman Tragedy. *Mr. Palmer.* Year course. Arranged

* * *

History of Greece. For description see History 101.

History of Rome. For description see History 102.

Ancient Art and Archaeology. For description see Art 107a, 107b.

Comparative Literature

Concentration in Continental Literature. Requirements: 24 units in course numbered over 100. Twelve of these units must be in Continental Literatur (in translation), twelve in European or classic literature in the origina language. Electives in English literature and Classics 160a, b are strongl recommended.

181a, 181b. Readings in Continental Literature in Translation. *Mr Baumann.* A study of outstanding works of Dante, Stendhal, Flaubert Dostoevsky, Tolstoy, Thomas Mann and others. (Open to Seniors. Other admitted only on permission of the instructor.) May be repeated for credi 3 units. Arranged.

available at scripps college

I-152a, 152b. Comparative Literature. *Mr. Merlan.* Year course. *W. 4:15 6:05.*

Economics

equisites: Economics 51 and 52, or equivalent, are prerequisites for all nced courses in economics. A grade of C or better in both courses is ired for concentration in the field.

quired courses: Economics 57, 71, 103, 104, 109, 110, and other courses onomics to bring the total of upper-division courses to 24 units.

commended Programs: Economics 51, 52, 57 and 71 should be taken e sophomore year, 103, 104, 109, and 110 in the junior year, and other es in the field of the student's special interest during the senior year. der to achieve a desirable balance between breadth and depth, students d seek a well-integrated selection of courses in the humanities, social ces, and sciences during each of the four years.

idents who are concentrating in Economics primarily for cultural reasons d include 190 and 199 in their programs.

idents who plan to attend a graduate school of business or enter a rate training program should include 72, 111, and expository writing.

e-legal students should take a full year of accounting, elementary and nediate, and 189 and 191 in addition to the core curriculum.

onomics-Engineering students should take both the 103, 109 and the 104, equences before taking courses numbered over 150.

idents who contemplate a career in teaching or research, whether in itional institutions, non-profit research organizations or private industry, d include courses in mathematics and foreign language, inasmuch as are often required for advanced degrees in Economics.

ree-Year M.A. Program: Proximity and cooperation between Pomona ge and the Claremont Graduate School make it possible for students to beginning with their junior year, a three-year program enabling them to both the B.A. and M.A. degrees. Any student interested in pursuing such gram is invited to confer with the Department.

AMERICAN ECONOMIC AND POLITICAL INSTITUTIONS

ona College believes that its graduates should be familiar with the eco- c and political foundations of American life. To this end the Depart- s of Economics and Government have organized a year course in rican economic and political institutions through which students *who ot take a full year* in each subject may nevertheless gain some understand- f both fields. This course combines a semester's study of economics with er semester devoted to American Government and the formal classwork plemented by a series of special lectures which all students are expected end. These lectures (which are open to other students and faculty as well) esigned to present the insights of persons who have had practical experi- in business and government and the speakers are chosen from leaders in nment, industry, finance, labor and law.

at part of the course pertaining to economic institutions (Economics 51)

is offered only during the fall term and that pertaining to politics (Gove ment 52) only in the spring but students may begin the course at whiche time best suits their schedules. The combined course may be offered in fulf ment of one of the requirements for distribution in the lower division. F outline of contents and time schedule see regular course descriptions under t respective departments.

ECONOMICS

51. Economic Analysis. *Staff.* An introduction to modern econon society with emphasis on the nature and operation of the Americ economy. 3 units. First semester. *MWF, 9, 10, 11; TThS, 9, 10;* for thc continuing second semester with Government 52, *MWF, 8; TThS, 8.*

52. Economic Problems and Policies. *Staff.* A continuation of Economics with emphasis on current problems and related public policies. Prerequisi Economics 51. 3 units. Second semester. *MWF, 9, 10, 11; TThS, 9, 10.*

57. Statistics for the Social Sciences. *Mr. Spiegelman.* A course in the a plication of quantitative method to economic and social problems with empha on the interpretation of the results obtained. (Credit will not be given for bo Economics 57 and Psychology 102.) 3 units. First semester. *TTh,* laboratory, *T* or *W, 1:15-3:05.*

71. Elementary Enterprise Accounting. *Mr. Rostvold.* The theory a practice of accounting in the merchandising business firm. Corporation, pa nership, and individual proprietorship accounting. 4 units. First semest *MWF, 8;* laboratory, *Th* or *F, 1:15-3:05.*

72. Elementary Cost Accounting. *Mr. Shelton.* The theory and meth of accounting in the manufacturing business unit. Emphasis on job-ord process, and standard cost systems. Prerequisite: Economics 71 or equi lent. 4 units. Second semester. *MWF, 8;* laboratory, *Th* or *F, 1:15-3:05.*

ADVANCED COURSES

Economics 51 and 52 or equivalent are prerequisites for all advanced cour in Economics.

103. Money and Banking. *Mr. Bond.* Principles of money, credit, and ban ing; the relation of money, income, and prices; and the problems of moneta management and fiscal policy. 3 units. First semester. *TThS, 9.*

104. Economic Theory and Business Policy. *Mr. Cook.* A study of ec nomic organization, markets and prices, resource use and income division markets containing various mixtures of competition and monopoly. 3 uni First semester. *MWF, 10.*

106. Economics of Consumption. *Mr. Perry.* A study of consumer behavi and an analysis of factors behind demand; includes such subjects as mat matics of finance, insurance and investments. 3 units. First semester. *MWF,*

109. National Income. *Mr. Rostvold.* A study of national income conce

their measurement, the determinants of the level of national income and ployment, and the general features and causes of fluctuations in economic vity. 3 units. Second semester. *TThS, 9.*

. Industrial Organization and Public Policy. *Mr. Bond.* The role of petition in a free society; public policies designed to maintain competition, r its character, or regulate monopoly, in light of the economic characteristics business practices of modern industry; a study in economics and law. 3 s. Second semester. *MWF, 10.*

. Labor Economics. *Mr. Perry.* A brief history of organized labor is fol- ed by an analysis of wage policies, labor productivity, collective bargain- minimum wage legislation, labor monopoly and current labor legislation. its. Second semester. *MWF, 9.*

. Management Accounting. *Mr. Rostvold.* An analytical development he role of accounting as a basis for managerial control and decision-making. phasis will be placed upon the legal, tax, and financial aspects of the lern business entity. Prerequisite: Economics 71. 3 units. Second semester. *WF, 11.*

5 International Economics. *Mr. Calderwood.* An analysis of trade and netary relationships in the international economy. 3 units. First semester. *ThS, 9.*

8 Public Finance. *Mr. Rostvold.* An analysis and evaluation of the effects f urrent governmental taxing, spending, borrowing, and debt management cies on the American economy. 3 units. First semester. *MWF, 9.*

9 Monetary Theory and Policy. *Mr. Cook.* The interrelationships of ney, income, and prices, with emphasis on the theory of output as a whole n policies designed to maintain high level employment without inflation. requisites: Economics 103, 104, and 109, or equivalent. 3 units. Second ester. Arranged.

9 Comparative Economic Systems. *Mr. Cook.* A comparison of alternative ns of economic organizations, with major emphasis on the economic systems f e United States and the Soviet Union. 3 units. Second semester. *TThS, 10.*

9 Introduction to Research. *Staff.* Supervised advanced study in selected e s of economics. Open to qualified seniors with the permission of instructor n chairman of the department. 3 units. Second semester. Arranged.

9 Readings in Economics. *Mr. Bond.* Senior seminar for economics majors. eling and discussion of leading books and current problems. 3 units. i semester. *MWF, 11.*

Available at Claremont Men's College

oration finance, business law, and personnel administration are available t laremont Men's College. Students who have completed the prerequisites, omics 51 and 52, may enter these courses with the permission of their d ers.

AVAILABLE AT CLAREMONT GRADUATE SCHOOL

Open to qualified seniors with the permission of the chairman of the dep ment and the instructor of the graduate seminar.

Monetary Theory and Policy. *Mr. Cook.* 4 units. Second semester.

Labor Economics. *Mr. Perry.* 4 units. Second semester.

Mathematics for Economists. *Mr. Vandermeulen.* 4 units. First semeste

International Economics. *Mr. Calderwood.* 4 units. Second semester.

Education

All students considering teaching as a career should study the section "Public School Teaching and Administration" on page 79.

Requirements for concentration: 27 units of work in courses numbe over 100, as prescribed below.

Prerequisites: Psychology 51; Economics 51; Government 52; Sociol 51. Junior standing is prerequisite to all courses in education except Edu tion 101, which is open to sophomores. Students planning to major in edu tion should take Education 101 during their sophomore year.

Required courses: Education 101, 104, 105, 151, 190; Sociology 106 or or 112; Psychology 107 and 108; Government 103. The program should clude further work in psychology and sociology, and special attention sho be given to those subject fields for which an elementary school teache responsible, such as art, English, geography, history, life sciences, mu physical education, and speech. Students anticipating teaching in South California are urged to acquire some familiarity with the Spanish langua

A concentration in Education will not be offered after 1958-59, but departmental course program will be retained substantially in its present for

101. Principles of Education. *Mr. Lee, Mr. Sanders.* An overview of basic patterns, practices, and trends in contemporary American educati with consideration of major educational problems. This course meets "principles of education" requirement, or can be accredited as an electiv professional education, for either the elementary or the secondary creden in California. Open to sophomores who are working toward a credentia units. Each semester. *MWF, 9.*

104. History of Education: European and Comparative. *Mr. Lee.* European roots of contemporary American educational traditions and p tices. Contemporary educational policies and practices in foreign countr This course is accredited as an elective in professional education towards eit the elementary or the secondary credential in California. 3 units. First sem ter. *MWF, 11.*

5. History of Education: United States. *Mr. Lee.* A study of the growth d evolution of education in the United States, including the intellectual, cial, and economic forces which have shaped educational developments. his course is accredited as an elective in professional education towards her the elementary or the secondary credential in California. 3 units. cond semester. *MWF, 11.*

1. Introduction to the Philosophy of Education. *Mr. Lee.* A study of e major contemporary philosophical approaches to American education. his course is accredited as an elective in professional education towards her the elementary or the secondary credential in California. 3 units. First mester. *TThS, 2:40-4:05.*

0. Comprehensive Seminar in Education. *Mr. Lee.* A seminar for seniors ncentrating in education, open to others with the instructor's permission. lected educational problems will be considered through independent re- arch, observation, and discussion. This course meets one-half of the re- irement in "curriculum and methods" for the elementary credential in lifornia. 3 units. Second semester. *Th, 3:15* and arranged.

AVAILABLE AT CLAREMONT GRADUATE SCHOOL

hese offerings, while designed primarily for graduate students, are open t qualified seniors by permission of their adviser and the instructor.

2). Symposium on Higher Education. *Mr. Lee and others.* Second semester. ranged. Offered in alternate years.

2). Educational Classics. *Mr. Lee.* Second semester. Arranged. (Offered i alternate years; to be given in 1958-59.)

n addition, a wide range of graduate work in education, leading to various dentials, as well as to advanced degrees, is offered at the Claremont Graduate hool.

English

English 1 or its equivalent is prerequisite for all other departmental courses. English 50 and History 1 are required of all students intending to concentrate in the Department of English.

A reading knowledge of at least one language and literature other than English, as well as high school preparation in Latin, is strongly recommended. In most graduate schools, candidates for the degree of Doctor of Philosophy are required to have a reading knowledge of *two* foreign languages.

Electives should be chosen, in consultation with the adviser, from courses in Speech and Dramatics, foreign literature, the history of England, the history of philosophy, and (especially for students interested in writing) elementary applied art.

Transfer students may offer equivalent courses pursued at other colleges in fulfillment of these requirements and recommendations.

CONCENTRATION WITH EMPHASIS ON LITERATURE

Students who are concentrating in literature must choose from each of th four groups below at least the number of units specified. English 115 mus be taken in the first semester of the Junior year.

Group I (6 units): ENGLISH 153 *or* 154 *or* 155 *or* 156.

Group II (9 units): ENGLISH 101 *or* 102 *or* 103 *or* 104.

Group III (6 units): ENGLISH 105 *or* 160 *or* 162 *or* 163.

Group IV (6 units): ENGLISH 115 *and* 195.

CONCENTRATION WITH EMPHASIS ON WRITING

The following pattern of courses must be completed, for a total of at leas 27 units, by students concentrating in writing.

1. Upper-division courses in composition (111, 151; Speech and Dramatic 112): 6 to 12 units, of which 3 units must be in English 111. Note that certai courses in composition may be repeated for credit under proper conditions
2. English 153 *or* 154 *or* 155 *or* 156: 6 units.
3. English 101 *or* 102 *or* 103 *or* 104 *or* 105: 9 units.
4. English 162 *and* 163: 6 units.

A brief reading list, designed to acquaint students with the major figures i literature, will supplement course assignments in the programs of concentra tion. The books on this list, many of which will already have been read i course, will be included in the comprehensive examination.

CONCENTRATION IN LITERATURE AND PHILOSOPHY: See Philosophy.

1a, 1b. ENGLISH: AN INTRODUCTORY COURSE. *Staff.* The fundamentals o composition and practice in writing. Reading and study of a few importan literary types. Students with marked deficiencies in the use of English may b required to meet for a fourth hour (arranged). 3 units. Section meeting *MWF, 8, 9; TThS, 8, 9.* Section of 1b first semester for specially qualifie students, *TThS, 9.*

50a, 50b. GREAT AUTHORS. *Staff.* An historical and critical study of severa great writers, the major periods, and the dominant forms of literature i English. No student will be admitted to the second semester of the cours who has not completed English 50a or an equivalent. 3 units. *MWF, 11; TThS 9, 10.*

56. INTRODUCTION TO POETRY. *Mr. Holmes.* A study of the principal aim and techniques of poetry. Readings in a wide variety of poetic types. 3 unit First semester. *TThS, 9.*

57. INTRODUCTION TO DRAMA. *Mr. Creeth.* Great plays of various periods fron the classic Greek to the present day; as extensive reading as time will permi 3 units. Second semester. *TThS, 9.*

58. INTRODUCTION TO PROSE FICTION. *Mr. Beatty.* A survey of importan works in prose fiction with emphasis upon selected novels—English, Americar

d continental—from the eighteenth century to the present. 3 units. Second nester: *TThS, 9.*

. News Writing. *Mr. Overaker.* The writing and presentation of news th special emphasis on daily newspaper practices. Enrollment limited to 25 idents. 3 units. First semester. *TTh, 8,* and third hour arranged. (Omitted 57-58.)

a, 61b. Publications. *Mr. Frazer.* Practice of journalism by work on stunt publications. Open to editors and staff members of *Student Life* and *etate.* Prerequisite: work on these publications for two semesters and permission of the instructor. May be repeated for credit. One unit. Arranged.

. Expository Writing. *Mr. Richardson, Mr. Creeth.* Practice in expository iting, especially for the student who is planning a career in business or one the professions, such as law, medicine, or scientific research. Enrollment nited to 25 students. 3 units. First semester: *MWF, 11.* Second semester: *1:15-3:05,* and *Th, 1:15.*

. Narrative and Descriptive Writing. *Mr. Mulhauser.* A course for idents who, having shown some ability as writers in English 1 or its equivnt, wish to continue with the basic creative problems of narration d description. This course is a prerequisite for English 111 and 151. rollment limited to 25 students each semester. In exceptional circumstances, course may be repeated for credit by permission of the instructor. 3 units. st semester: *TThS, 9.* Second semester: *TThS, 10.*

ADVANCED COURSES

a, 101b. The Renaissance in England. *Mr. Strathmann.* Non-dramatic rature of the English Renaissance: the works of Spenser, his contempories, and writers of the first half of the seventeenth century. 3 units. *MWF, 9.*

. The Age of Swift and Pope. *Mr. Bracher.* A survey of the literature of l Restoration and early eighteenth century. Main topics: Restoration drama l neo-classic literature. 3 units. Second semester. *MWF, 2:15.* (Offered in rnate years; omitted in 1957-58.)

. The Age of Johnson. *Mr. Lang.* A survey of the literature of the r eighteenth century. Main topics: the beginning of the novel, pre-romantic try, Dr. Johnson and his circle. 3 units. Second semester. *MWF, 2:15.* lternates with 102.)

a, 104b. Literature of the Nineteenth Century. *Mr. Lang, Mr. Mulhauser.* An intensive study of the major poets and prose-writers of the Romantic iod (first semester) and the Victorian period (second semester). 3 units. *ThS, 9.*

a, 105b. American Literature. *Mrs. Jordan, Mr. Holmes.* An intensive dy of the great American writers of the nineteenth century. First semester: wards to Hawthorne. Second semester: Melville to E. A. Robinson. 3 units. *ThS, 10.*

111. The Short Story. *Mr. Frazer.* Practice in the writing of short storie and sketches. (A student who has completed both English 111 and Englis 151 may repeat one of these courses for credit.) Enrollment limited t 25 students. Prerequisite: English 64 and permission of the instructor. 3 unit First semester. *T, 1:15-3:05,* and *Th, 1:15.*

115. Literary Criticism. *Mr. Fussell, Mr. Holmes.* Reading of importan documents of literary criticism; application of critical principles and technique to selected literary works. 3 units. First semester. *WF, 2:15-3:30.*

151. Creative Writing. *Mr. Frazer.* Supervised practice in the form of creative writing, selected according to the needs and abilities of the student (A student who has completed both English 111 and English 151 may repea one of these courses for credit.) Enrollment limited to 25 students. Prerequisites English 64, and English 111 or permission of the instructor. 3 units. Secon semester. *T, 1:15-3:05,* and *Th, 1:15.*

153. Chaucer. *Mr. H. Davis.* A study of Chaucer as the outstanding narrativ and dramatic poet of the transition from the medieval to the modern worl 3 units. Second semester. *MWF, 2:15.* (Alternates with 156.)

154. The English Language. *Mr. H. Davis.* A survey of the English lan guage from its origins to the present. Especially recommended to prospectiv teachers. 3 units. First semester. *TThS, 10.*

155a, 155b. Shakespeare. *Mr. Strathmann.* A study of the principal plays an of Shakespeare's career as a dramatist. First semester, mainly comedies an histories; second semester, mainly tragedies. 3 units. *MWF, 11.*

156. Milton. *Mr. Weismiller.* A study of the poems and selected pros works, emphasizing the literary and intellectual background of Milton's work 3 units. First semester. *MWF, 9.* (Offered in alternate years; omitted in 1957 58.)

160a, 160b. The English Novel. *Mr. R. Davis, Mr. Frazer.* A study of th development of the novel in England. First semester: major British novelist from Fielding to George Eliot. Second semester: from Thomas Hardy to th present. 3 units. *MWF, 10.*

162. Contemporary Novelists. *Mr. Frazer.* A study of the novels o Lawrence, Joyce, Hemingway, Faulkner, and some younger writers, witl emphasis upon their technique and reflection of contemporary values. 3 units First semester. *MWF, 10.*

163. Contemporary Poets. *Mr. Racey.* Poets of the twentieth century Gerard Manley Hopkins to the present, studied in the light of the grea poetic tradition. 3 units. Second semester. *MWF, 10.*

195. Readings in English Literature. *Mr. R. Davis, Mr. Strathmann.* A seminar open to seniors concentrating in English. Lectures, readings, an reports directed toward a synthesis, on the student's part, of his work i English. 3 units. Second semester. Two sections: *T, 3:15; Th, 2:15-4:05.*

96. Problems of Writing. *Staff.* A specialized course in advanced composition; group and individual conferences. Prerequisites: English 64, 111 and 51 and permission of instructor. 1 or 2 units. Second semester, one hour a week. Arranged.

97. Directed Reading. *Staff.* Seniors concentrating in English may enroll for individually planned reading programs, usually supplementary to advanced courses. Prerequisites: a grade point average in English of 3.4 or better; permission of the instructor and the departmental chairman. Enrollment may be repeated. 3 units. Each semester. Arranged.

Character Presentation in Dramatic Literature. For description see Speech and Dramatics 61a, 61b.

Playwriting. For description see Speech and Dramatics 112a-112b.

AVAILABLE AT SCRIPPS COLLEGE

Some Scripps courses (starred) duplicate courses at Pomona. Credit will be allowed for either the Scripps or the Pomona course, but not both.

100. Mark Twain's America. *Mr. Foster.* First semester. *MWF, 11.*

-113. Contemporary Fiction. *Mr. Gray.* Second semester. *MWF, 10.*

-116a, b. Shakespeare. *Mr. Fogle.* (First semester, Tragedy; second semester, Comedy.) *MW, 3:15-4:30.*

-144. The Romantic Poets. *Mr. Armour.* Year course. *MWF, 8.*

148. Contemporary Drama. *Mr. Gray.* First semester. *MWF, 10.*

160. The West in American Literature. *Mr. Foster.* Second semester. *MWF, 11.*

Geology

Geology 1 is a non-technical course intended for students majoring in humanities or social sciences. Geology 51 and 52 are designed for students with some scientific background in high school, and are prerequisites for all the more advanced work in the department, except Geology 59 and 107a. The other courses are offered for persons intending to specialize in geology or a related science.

A student concentrating in geology should include courses 51, 52, 59, 102, 107, 110, 112, 151, 181, 182, and an approved summer field course. Required in other departments: Mathematics 1, 65; Physics 51; Chemistry 1, and a reading knowledge of German, French or Spanish (German or French preferred). Physics 52 and Pre-Engineering 7 and 40 are desirable. In exceptional cases courses in biology may be substituted for those in physics or mathematics. Rarely the requirement of a summer field course is waived.

1a, 1b. Introduction to Earth Science. *Mr. McIntyre.* An introductior survey course designed for the non-technical student. Occasional field trips and laboratory demonstrations are arranged to illustrate topics dealt with in the lectures. No prerequisites. May not be counted towards the major in Geology. units. *MWF, 10.*

51a, 51b. Introduction to Geology. *Mr. Oertel.* This course is recom mended for students interested in geology and having an elementary back ground of mathematics, physics and chemistry. It is a prerequisite for all othe courses in the department except Geology 1, 59 and 107a. 3 units. *MWF, 1(*

52a, 52b. Laboratory and Field Trips Supplementing Geology 51a, 51b *Mr. Oertel.* This course is normally open only to students who are taking o have taken Geology 51. 1 unit. *Th, 1:15-4:05.*

59. Mineralogy, Including Crystallography. *Mr. McIntyre.* Two class and two laboratory periods. Laboratory fee $4.00. 4 units. First semester. Clas *WF, 11,* laboratory *T* and *F, 1:15-4:05.*

102. Elementary Field Geology. *Mr. Oertel.* Field methods; geologic map ping; spring recess trip; writing of geologic reports. Prerequisites: Geology 110, completed or in progress, and Geology 112. Second semester. 3 units Arranged.

104. Field Geology. *The Staff.* A summer field course in geologic mapping Prerequisite: Geology 102 and 110. 6 units.

107a, 107b. Paleontology, and Stratigraphy. *Mr. McIntyre.* Prerequisit for 107b: Geology 51, 52. Laboratory fee $6.00 each semester. 3 units. Clas *TTh, 9;* laboratory, arranged. (Omitted in 1957-58.)

110. Introduction to Petrology. *Mr. McIntyre.* Prerequisite: Geology 51 52 and 59. Laboratory fee $4.00. Two class and two laboratory periods. 4 units Second semester. *WF, 11;* laboratory *T* and *F, 1:15-4:05.*

112. Structural Geology. *Mr. Oertel.* Structural features of sedimentary igneous and metamorphic rocks; practice in laboratory methods dealing with geological problems in three dimensions. Prerequisite: Geology 51, 52. Laboratory fee $4.00. Two class and one laboratory periods. 3 units. First semester *TTh, 10;* laboratory *W, 1:15-4:05.*

151, 151b. Optical Mineralogy and Petrography. *Mr. Christie.* Th optical properties of crystals; study of minerals and rocks with the petrographic microscope. Two class and one laboratory periods first semester one class and two laboratory periods second semester. Prerequisite: Geology 110. Laboratory fee $5.00 first semester; $8.00 second semester. 3 units Class *TTh, 9;* laboratory, arranged.

181, 182. Geological Investigation and Research. *Staff.* Laboratory fee $4.0 each semester. 3 units. Arranged.

AVAILABLE AT CLAREMONT GRADUATE SCHOOL

pen to qualified undergraduate students who have obtained the consent of e instructor in charge.

01. Advanced Petrology. *Mr. Christie.*

03. Regional Geology. *Staff.*

05. Seminar in Physical Geology. *Staff.* (Not offered in 1957-58.)

German

program of concentration in German consists of a minimum of 18 units in urses numbered above 100 and 6 additional units in German or in a related ld selected according to the student's needs and interests. Special programs r students interested in German Literature, translation, library work, or post aduate work in German can be had from the department.

1-1b. Elementary German. *Mr. Mathieu.* The acquirement of a small rking vocabulary. Constant ear-training, and as much practice in speaking time permits. Daily exercises in reading and writing. The essentials of ammar. 3 units. *MWF, 9, 11; TThS, 10.*

a-53b. Advanced German. *Mr. Baumann.* Intensive reading of selected rman works, with collateral reading in the field of the student's individual erest. Continued practice in German conversation. Prerequisite: German or an equivalent. 3 units. *MWF, 9; TThS, 9.*

a, 102b. Advanced Conversation, Readings and Translation. *Mr. Mathieu.* Intensive critical readings of masterpieces of the eighteenth and neteenth centuries. Drill in written and oral expression. Prerequisite: rman 53 or equivalent. 3 units. *MWF, 9.* (Omitted in 1957-58.)

a, 109b. German Literature of the Nineteenth Century. *Staff.* With cial reference to the cultural, economic and political history of Germany. scussion and papers. Prerequisite: German 53 or equivalent. 3 units. *TThS, 9.* (Omitted in 1957-58.)

a, 113b. German Classics of the Eighteenth Century. *Mr. Mathieu.* tudy of the outstanding works and personalities of the period. Prerequisite: rman 53 or equivalent. 3 units. *TThS, 9.*

a, 158b. Modern German Literature. *Mr. Baumann.* The development German Literature from 1880 to the present with reference to the political l social changes during that period. 3 units. *MWF, 11.*

a, 160b. Survey of German Literature. *Mr. Baumann.* The development of German Literature from earliest times to the present. 3 units. *MWF, 11.* (Omitted in 1957-58.)

Government

General Requirement: Government 51 and 52 are desirable prerequisites for advanced courses, but the Department invites students who have taken either of these courses or have had considerable work elsewhere in the social sciences to confer with staff members regarding enrollment in any course desired.

Lower Division Prerequisites for Concentration: The following courses should be completed by the end of Sophomore year: History 1; Government 51, 52; Economics 51, 52. The introductory course in Sociology or Anthropology is strongly recommended and also the elementary course in statistics and a semester of accounting.

Program of Concentration: A minimum of 25 upper division units in Government, including in each case Government 104, 125, 154, 157, 181, 182, 190 and 6 upper division units from one of these fields: Economics, History, Sociology and Anthropology. Each student's program shall be arranged in consultation with the departmental staff. A reading and speaking knowledge of at least one modern foreign language is strongly advised, particularly for students having any intention whatever of seeking positions in foreign service or foreign trade or of engaging in graduate study.

Three Year M.A. Program: Proximity and cooperation between Pomona College and the Claremont Graduate School make it possible for students so interested to plan, beginning with their junior year, a three-year program enabling them to earn both the B.A. and M.A. degrees. Any student interested in pursuing such a program is invited to confer with the Department.

AMERICAN ECONOMIC AND POLITICAL INSTITUTIONS

Pomona College believes that its graduates should be familiar with the economic and political foundations of American life. To this end the Departments of Economics and Government have organized a year course in American economic and political institutions through which students who cannot take a full year in each subject may nevertheless gain some understanding of both fields. This course combines a semester's study of economics with another semester devoted to American Government and the formal classwork is supplemented by a series of special lectures which all students are expected to attend. These lectures (which are open to other students and faculty as well) are designed to present the insights of persons who have had practical experience in business and government and the speakers are chosen from leaders in government, industry, finance, labor and law.

That part of the course pertaining to economic institutions (Economics 51) is offered only during the fall term and that pertaining to politics (Government 52) only in the spring but students may begin the course at whichever time best suits their schedules. The combined course may be offered in fulfillment of one of the requirements for distribution in the lower division. For outline of

ntents and time schedule see regular course descriptions under the respective epartments.

. Fundamentals of Politics. *Staff.* Political theory, institutions and behavior as revealed in the enduring issues of politics. First semester. 3 units. *WF, 8, 9, 10; TThS, 8, 9.*

. American Government. *Staff.* Analysis of the American system of constitutional government, mainly on the national level, and of the position of the . S. in world politics. May be combined with Economics 51 to enable students ho cannot devote more than six hours to the two fields to do some basic ork in each. 3 units. Second semester. *MWF, 8, 9, 11; TThS, 8, 9, 10.*

. Contemporary Politics. *Mr. Olson.* Analysis of outstanding issues of the y in national and international affairs, based upon the reading of representative periodicals, both domestic and foreign. 1 unit. Second semester. *Th, 1:15.* mester. *MWF, 8.*

3. State and Local Problems. *Mr. Flournoy.* Trends and problems on all vels of California government including their inter-relationships. Emphasis public education, municipal management, natural and human resources. units. First semester. *TTh, 1:15-2:30.*

4. Principles of Administration. *Mr. Vieg.* Forms and modes of public administration: budgeting, personnel management, public relations, performance measurement, comparisons with business practices. 3 units. Second mester. *MWF, 8.*

5. Law and Society. *Mr. Flournoy.* Nature of law, development of Anglo-American legal institutions, theories of jurisprudence. 3 units. Second mester. *TThS, 9.*

1). Fundamentals of International Relations. *Mr. Olson.* Basic factors o power; the balancing process; comparative foreign-policy making; approaches to world order. 3 units. First semester. *MWF, 11.*

1. Political and Economic Geography. *Mr. Olson.* Resources, location a l other environmental influences upon trade diplomacy and military strategy. 3 units. First semester. *TTh, 1:15-2:30.* (Not given 1957-58.)

1. Modern Democracies. *Mr. Vieg.* Comparative analysis of political forces a l governmental institutions in various democratic countries, notably Britain, France and Germany. 3 units. First semester. *MWF, 9.*

1. Modern Totalitarianism: U. S. S. R. *Mr. Olson.* Theory and practice o recent dictatorships with emphasis on Soviet regime since 1917. (May be combined with History 114 to comprise a year's work in the History of Russi) 3 units. Second semester. *MWF, 9.*

1. The American Presidency. *Mr. Vieg.* Systematic analysis of the role o the President as political leader, head of his party, chief administrator, commander-in-chief, and leader in foreign relations, with considerable atten-

tion given to the lives and works of the men who have done most to mol the office. 3 units. First semester. *MWF, 11.*

154. Constitutional Law. *Mr. Flournoy.* Nature and extent of constitutiona power; separation of powers doctrine; federal-state relations; powers of Congres and Presidency; citizenship and suffrage; guarantees of individual rights. units. First semester. *TThS, 9.*

155. Summer Field Projects in Community Government and Politics *Mr. Vieg.* Individual investigation and analysis of the government an politics of a selected local community (somewhere in California though no necessarily near Claremont) culminating in a comprehensive written repor covering economic and social forces as well as civic affairs and traditions. (T be offered during the summer in the Claremont Summer Session.) Open onl to students capable of independent work and limited to a maximum of ten 3-6 units. Time to be arranged in consultation with the Instructor.

157. Parties and Pressure Groups. *Mr. Flournoy.* Role of parties, pressur groups, voters and politicians in the American political process. 3 units. Firs semester. *MWF, 10.*

161, 162. Readings and Research in Government. *Staff.* Open to student capable of independent study. Individual programs must be approved i advance. 2 or 3 units. Arranged.

163, 164. Readings and Research in International Relations. *Staf* Designed for advanced students, particularly concentrators in Internationa Relations. Directed studies and periodic individual consultations with in structor. 2 or 3 units. Arranged.

165. Foreign Policies of the United States. *Mr. Olson.* How foreig policy is made and carried out; the Constitutional framework; the Executiv and Legislative functions; the role of the public; the "national interest" an objectives; contemporary policies and programs. 3 units. Second semeste *MWF, 11.*

167. International Law and Organization. *Mr. Olson.* Introduction to th law of war, peace and neutrality between states; developmental and structura analysis of the United Nations and the more limited regional and functiona agencies (NATO, WHO, EURATOM, etc.). 3 units. (Omitted, 1957-58.)

169. Seminar in International Relations. *Mr. Olson.* Integration o historical, economic and political aspects of the field, with emphasis upo theory. Open to non-concentrators by permission. 3 units. Second semeste *W, 2:15-4:55.*

181. American Political Thought. *Mr. Flournoy.* The main currents o American political thought from colonial times to the present. Applications i the light of contemporary political problems. 3 units. First semester. *TTh 2:40-3:55.*

182. Political Theory. *Mr. McDonald.* Major political thinkers of the Western heritage in the context of their times. Analyses of basic political values and their implementation. 3 units. Second semester. *TTh, 2:40-3:55.*

190. Senior Thesis. *Staff.* Preparation and presentation of a substantial research paper on some significant problem in government. For students concentrating in government. 1 unit. Second semester. Group meetings and individual conferences as occasion warrants.

Honors Study

Students of marked capacity are invited to arrange with the Department for enrollment in programs of independent study culminating in the presentation of a dissertation on some subject of special interest and significance. One half of the minimum requirement of 12 units may be met by Government 181 and 182.

Statistics For Social Scientists. For description see Economics 57.

Elementary Accounting. For description see Economics 71.

available at claremont men's college

Administrative Organization in Business and Government. *Mr. Benson.* 3 units. Second semester.

Business Law. *Mr. Fick.* 3 units. Each semester.

available at claremont graduate school

Open to qualified seniors with the consent of the instructor.

210. Topics in the History of Political Theory. *Mr. McDonald.* 4 units. First semester.

231. Politics and Legislation. *Mr. Vieg.* 4 units. Second semester.

251. International Politics: Theory. *Mr. Olson.* 4 units. First semester.

THE WASHINGTON SEMESTER

Pomona is one among a number of colleges which have been invited by The American University to participate in its Washington Semester program whereby a limited group of undergraduate students are afforded an opportunity for special study of the governmental process in the national capital. The College has been allotted a quota of four students annually, the choice among applicants being made by a Faculty Selection Committee. Preference is given to juniors. Under a cooperative agreement tuition is paid in the regular manner to Pomona College while charges for board and room are paid in Washington, D. C. Candidates selected defray their own costs for travel and other expenses. Students interested in the program are invited to consult with the chairman of the Department of Government who serves as local representative.

History

General requirement: History 1, or its equivalent, is a prerequisite for all othe courses in History. Except for History 1, either semester of year courses ma be taken separately without special permission of the instructor. Qualifie Sophomores may elect courses in the 100-150 range with the approval of th instructor.

Concentration requirements: Students planning to concentrate in History ar required to take History 1, 55, 140, and 190 as well as a pro-seminar i History. They should also take Government 51 and 52 and Economics 51 an 52 during the Freshman and Sophomore years. During Junior and Senio years in addition to History 140, 190, and a pro-seminar, they must take a least 12 units of upper division courses in History, and at least 6 units o upper division courses in a related field such as Economics, Government Literature, Philosophy, Religion, or Sociology. A knowledge of foreig languages is of great value to students in History, and all concentrators ar urged to gain as much proficiency as possible in this direction. Students wh have in mind advanced work in History should remember that most graduat schools require a reading knowledge of one foreign language for the M.A. an of two for the Ph.D. The courses taken in a program of concentration i History should be carefully selected, and the program as a whole should b planned in consultation with a member of the History Department. All con centrators in History will write three examinations of a comprehensiv nature near the end of Senior year. One of these will be the same for al concentrators in History and will deal with the subject as a whole, its poin of view and its method. In addition, each concentrator will select two fro the following list of fields in which to be examined: Ancient History, Europ 312-1648; Europe since 1648; the United States; Latin America; and the Fa East. The examinations are not designed with the expectation that student will have taken all courses offered by the Department in one or another fiel in order to pass that examination. Since the fields are broad, an equal degre of familiarity with all aspects is not required. It is the view of the Departmen that judiciously planned independent reading may well supplement or replac courses in preparation for part of the examinations.

The Department encourages qualified students to undertake programs o Honors Study. Information respecting such programs may be obtained fro the Departmental Staff.

Joint concentration: Philosophy and History.
See Philosophy.

1a-1b. History of Western Civilization. *Staff.* A survey of political, religious, intellectual, and economic developments in Europe and their expanding influence. First semester: Ancient Greece to the end of the Middle Ages; second semester: Renaissance to the present. 3 units. *MWF, 8, 9, 10; TThS, 8, 9.*

Asia and Europe. *Mr. Ch'en.* A survey of Eastern contacts with and ntributions to Western Civilization with emphasis upon the interdependence cultures. May be taken concurrently with History 1a-b. 2 units. Second mester. *M, 7:30-9:30.*

. Current History. *Mr. Herring.* Analysis of contemporary national and ternational issues, based upon reading of representative newspapers and agazines. First semester. May be repeated for credit. 1 unit. *Th, 1:15.*

a, 55b. History of the United States. *Mr. Kemble.* The political, eco-mic, and cultural development of the United States. First semester: 1607 to 50; second semester: 1850 to the present. 3 units. *MWF, 11.*

1. History of Greece. *Mr. Carroll.* A survey from the prehistoric age until e Roman conquest with special emphasis on the city-state and democracy. 3 its. Second semester. *MWF, 9.* (Offered in alternate years; omitted in 57-58.)

2. History of Rome. *Mr. Carroll.* The Republic and Empire from the unding of the city until the sixth century A. D. 3 units. Second semester. *WF, 9.* (Offered in alternate years; given in 1957-58.)

3a, 103b. History of the Middle Ages. *Mr. Learnihan.* A study of litical, economic, intellectual, and religious developments and institutions ring the transition from Mediterranean to European civilization. First mester: 312-1054; second semester: 1054-1300. 3 units. *TThS, 9.* (Offered in ernate years; omitted in 1957-58.)

4. Foundations of the Modern State. *Mrs. Davies.* Problems in the terrelations of political and economic institutions and thought in western rope during the medieval and early modern periods, with special reference England and France. 3 units. First semester. *MWF, 9.*

7a, 107b. History of England. *Mr. Gleason.* The religious, intellectual, d economic, as well as the political, evolution of Great Britain and the mpire. First semester: to 1688; second semester: 1688 to the present. 3 units. *WF, 11.*

8. History of the Renaissance and Reformation. *Mr. Learnihan.* A udy of the transition from Medieval to Modern civilization in Europe be-tween 1300 and 1648. 3 units. Second semester. *MWF, 9.* (Offered in alter-nate years; omitted in 1957-58.)

9. Absolutism and Enlightenment in Europe. *Mr. Smith.* An analysis the social, economic, political, and cultural developments in Europe from 48 to 1789 with France as a focal point. 3 units. (Offered in alternate years; mitted in 1957-58.)

0. French Revolution and European Reaction. *Mr. Smith.* Europe from 89 to 1848 with special emphasis on the impact of France, and the role of t French Revolution in shaping contemporary civilization. 3 units. (Offered i alternate years; omitted in 1957-58.)

113a, 113b. Europe Since 1848. *Mr. Meyer.* A study of political, economic social, and intellectual developments with reference both to their intrinsic significance and to an understanding of contemporary Europe. 3 units. *MWF, 10*

114. History of Russia. *Mr. Smith.* Internal developments to 1917 together with a consideration of Russia's historical relationships with Baltic, Balkan and Polish neighbors. This course may be followed by Government 126 to constitute a year's work in Russian history. 3 units. First semester. *TThS, 8* (Offered in alternate years; given in 1957-58.)

117a, 117b. Intellectual History of Europe. *Mr. Learnihan.* A study of the formation of ideas and ideals significant in politics, religion and science from classical times to the present. 3 units. *TThS, 9.* (Offered in alternate years; omitted in 1957-58.)

118. Modern Economic History. *Mrs. Davies.* Problems of economic development from the age of mercantilism to the present, with special reference to western Europe. 3 units. Second semester. *MWF, 9.*

120. The Westward Movement in North America. *Mr. Kemble.* A study of the migration of people, institutions, and ideas across the continent, from the establishment of the English colonies to the twentieth century. 3 units. First semester. *MWF, 3:15.*

123a, 123b. History of Latin America. *Mr. Herring.* The Indian and colonial backgrounds; the development of the twenty independent republics to the present day. 3 units. *W, 7:30-9:45 p.m.*

128b. Inter-American Relations. *Mr. Herring.* Diplomatic, cultural, and economic relations between the United States and Latin America from 1895 to the present. 3 units. Second semester. *Th, 7:30-9:45 p.m.*

130. Modern Maritime and Naval History. *Mr. Kemble.* A study of the development of sea power and oceanic commerce from the 15th century to the present. 3 units. First semester. *MWF, 9.* (Offered in alternate years; given in 1957-58.)

134. The History of Spain. *Mr. Herring.* The history of the Iberian Peninsula, from ancient times to the present. Designed as introduction to Latin American history. First semester. 3 units. *Th, 7:30-9:45 p.m.*

135. The Colonial Period of Latin America. *Mr. Herring.* The Spanish and Portuguese Conquest, colonial government, social and economic institutions, the Church. Second semester. 3 units. (Omitted in 1957-58.)

142. Colonial America, 1607-1763. *Mr. Adair.* The political, economic, and intellectual history of the Thirteen British Colonies in North America. 3 units. (Omitted in 1957-58.)

143. The American Nation, 1763-1815. *Mr. Adair.* A study of the achievement of independence by the United States and the establishment of the republic. 3 units. (Omitted in 1957-58.)

45. History of the Pacific Coast. *Mr. Kemble.* The exploration and settlement of the region and its political, economic, and social development to the present. 3 units. (Omitted in 1957-58.)

50. Reading and Research in History. *Staff.* Individual programs of reading on significant historical topics or fields. Permission of the member of the department with whom the reading is to be done must be obtained prior to registration. May be repeated for credit. 2 to 4 units. Arranged.

57. Representative Historical Personalities. *Mr. Learnihan.* A study of the parts played by a group of significant individuals in the unfolding of Western Civilization and their impact on historical change. 3 units. (Omitted in 1957-58.)

65. Representative Societies. *Mr. Gleason.* 5th century Athens, 13th century France, 16th century England, 19th century New England. A course for Seniors designed to integrate the total program. 3 units. (Omitted in 1957-58.)

For courses in Far Eastern History see those listed under Oriental Affairs.

The following courses are designed primarily for concentrators in History. Other students may be admitted with the permission of the instructor. It is intended to offer one pro-seminar in European and one in American History each year, but the subject studied will vary from time to time. Arrangements may be made for work of this type in Far Eastern and Latin American history at the Claremont Graduate School.

100. The Study of History. *Mr. Gleason.* An introduction to the methods, techniques, schools, and philosophies of history. 3 units. First semester. *MW, 2:15* and arranged.

160. Pro-Seminar in European History. *Miss Bruchholz.* 3 units. First semester. *TTh, 1:15-2:30.*

170. Pro-Seminar in American History. *Mr. Kemble.* 3 units. Second semester. *MW, 2:15* and arranged.

190. Historical Problems and Interpretation. *Staff.* Consideration of major historical developments and some of the most significant works in European and American history. 3 units. Second semester. Section A, *MW, 2:15* and arranged. Section B, *F, 1:15-4:05.*

AVAILABLE AT SCRIPPS COLLEGE

101-117a. The Colonial Mind. *Mr. Adair.* American intellectual and cultural history in the seventeenth and eighteenth centuries. 3 units. First semester. *MWF, 10.*

101-117b. The American Renaissance. *Mr. White.* American intellectual and cultural history in the nineteenth century through the Civil War. 3 units. Second semester. *MWF, 10.*

AVAILABLE AT CLAREMONT MEN'S COLLEGE

110. History and Problems of Imperialism. *Mr. Povlovich.* 3 units. Firs semester.

160. American Economic Institutions. *Mr. Smith.* 3 units. First and secon semesters.

160. American Foreign Policy. *Mr. Gould.* 3 units. First semester.

160. History in the Making: Europe and Asia. *Mr. Mann.* 3 units. Secon semester.

160. The Interpretation of History. *Mr. Mann.* 3 units. Second semeste

AVAILABLE AT CLAREMONT GRADUATE SCHOOL

A number of offerings designed primarily for graduate students are open t qualified seniors by permission of the chairman of the department and th instructor. For specific information consult the chairman of the department o the catalogue of the Claremont Graduate School.

International Relations

The concentration in International Relations is governed by a faculty com mittee representing the several departments offering courses required for th concentration.

Requirements and Recommendations for the Concentration:

Thirty units of upper division work are to be taken from the offerings liste below. Within this list, some electives are allowed, although a number o courses are specifically required, including six units dealing with one regio of the world. Lower Division prerequisites for courses in the upper divisio should be met in the freshman and sophomore years. In addition, the Com mittee requires History 55, History of the United States, unless the studen can demonstrate adequate background in this subject for advanced work i American foreign policy.

Proficiency in at least one modern foreign language is required. The Com mittee defines proficiency as 1) the ability to read accurately without constan reference to a dictionary; 2) the ability to speak and write simply and directl on general topics. This requirement is normally satisfied by taking and com pleting with the grade of C or better one of the following courses: French 81a 81b; Spanish 91a-91b; German 53a-53b, plus one semester of a third yea course in German. In the case of Russian, Oriental, and other language students are advised to consult with Mr. Olson as to requirements. Thos majors with already strong experience in a language may be excused fro taking courses after an oral and written examination administered by Professor Meyer or Young, or a member of the appropriate department; this examina tion must be passed no later than April 15 of the junior year.

A Senior Paper involving intensive research in some aspect of internationa

elations of special interest to the concentrator is to be submitted by April 15 f the senior year. Concentrators are urged to make use of departmental eading courses in the fall of the senior year to do most of the reading and rganizing of the paper. In order to encourage background reading in the ummer, the Committee requires submission of a tentative title for the senior aper by June 1 of the junior year.

The comprehensive examination consists of two written examinations, and ne oral examination before two members of the Committee. Some part of ie written examination will be in the foreign language of the student's noice.

Under carefully defined conditions, the concentrator in International Relaons may devote the junior year to study abroad. Consult Mr. Iredell or Mr. lson.

Honors Study in International Relations may be taken by completing an lonors thesis in from 12 to 18 units of independent study in the upper division id satisfactorily passing an examination administered by the Honors Comittee of the College.

For specific descriptions of the courses listed below see respective departental listings:

A. *Core courses:* (21 units)

Government	109	Fundamentals of International Relations
Economics	154	International Economics I
Sociology	111	Problems of World Demography
Government	125	Modern Democracies
Government	126	Modern Totalitarianism: U.S.S.R. *or* Economics 195, Comparative Economic Systems *or* Sociology 153, Comparative Social Movements
Government	165	Conduct of American Foreign Affairs
Government	169	Seminar in International Relations

B. *Regional courses:* (6 units required in any one region)

European Area

Government 125; History 107b, History of England (since 1688); History 113ab, Europe since 1848; History 117b, Intellectual History of Europe; History 118, Modern Economic History (stresses Western Europe); History 160, Pro-Seminar in European History.

Soviet Area

Economics 195; Government 126; History 114, History of Russia (to 1917).

Latin-American Area

History 123ab, History of Latin America; History 128b, Inter-American Relations.

Asian Area

Oriental Affairs 103ab, History of China; Oriental Affairs 105, Con temporary East Asia; Oriental Affairs 111, Japanese History and Culture Oriental Affairs 123, Eastern Asia in the 19th Century; Oriental Affair 105, Contemporary East Asia; Oriental Affairs 106, Contemporary South ern Asia; Oriental Affairs 140, History of Cultural Relations betwee China and the Occident; Oriental Affairs 160, History of Asian Diplo macy; Philosophy 126, Oriental Philosophy.

Middle Eastern and African Areas

While Pomona does not at this time offer course work regarding thes regions, a student may take up to six units of directed reading concern ing Middle Eastern and/or African Affairs (Anthropology 193, Eco nomics 198, Government 161, 2, History 150, Sociology 192). Permissio of the Committee and of the instructor is required.

C. *Electives* to complete the upper division requirement may be selecte from among many offerings in the Associated Colleges. For complet list of acceptable courses consult Mr. Olson. The Committee especiall recommends the following for concentrators:

Anthropology 108, Comparative Cultures; Government 112, Political an Economic Geography; Economics 155, International Economics II; Gov ernment 167, International Organization; History 113ab; History 128b Oriental Affairs 160.

AVAILABLE AT CLAREMONT MEN'S COLLEGE

Geography 110; American Diplomatic History 160; Current Problems i American Foreign Policy 160; History and Problems of Imperialism 110 International Finance 160.

AVAILABLE AT SCRIPPS COLLEGE

IV-140ab. RELIGIONS OF THE WORLD.

AVAILABLE AT CLAREMONT GRADUATE SCHOOL

Asian Studies 261, Political and Economic Development in South Asia International Relations 221, International Organization in Modern Times International Relations 226, The Cultural Bases of World Politics; Internationa Relations 252, The Literature of International Relations.

Mathematics

Requirements for concentration: The basic courses in Mathematics are eithe (i) Mathematics 1a, b; 65a, b, and 125; or (ii) Mathematics 50a, b, and 150a, b In addition to these, the following courses are required: Mathematics 118, 119 151a, b, and at least three more upper division units in the Department o Mathematics. An additional six units must be taken in upper division mathe matics or selected from among Physics 113a, b, 191a, b, and Astronom 156a, b.

Mathematics 1a, b is normally prerequisite for all other work in the Depart-ıent. However, students who have had trigonometry in high school may take .n examination in mathematics on the Saturday preceding registration, and ıose who make a sufficiently high grade will be permitted to enroll in Mathematics 50a if they so desire.

a, 1b. Introduction to College Mathematics. *Staff.* While this course repares students for work in the calculus, it is at the same time compre-ensive enough to provide in itself a general mathematical background. It ıcludes college algebra, trigonometry, and an introduction to analytic :ometry and calculus. 3 units. *MWF, 9, 10, 11; TThS, 9, 10.*

)a, 50b. Analytic Geometry and Calculus. *Mr. Tolsted, Mr. Hamilton.* he Standard integrated course in analytic geometry and calculus. Credit will)t be given for both Mathematics 1a, b, and 50a, b. 3 units. *MWF, 8, 11.*

;a, 65b. Differential and Integral Calculus. *Staff.* This is a standard)urse in the theory and applications of the calculus. Prerequisite: Mathe-:atics 1a, b. Credit will not be given for both Mathematics 65 and 50. units. *MWF, 8, 9; TThS, 9.*

)2. Introduction to Applied Mathematics. *Mr. Hamilton.* In 1956-57 the)urse will treat of vector analysis and applications. Prerequisite: Mathematics ;a, b. 3 units. Second semester. *MWF, 11.* (Omitted 1957-58.)

8. Higher Algebra. *Mr. Jaeger.* Permutations, combinations, probability, nomial and multinomial theorems, summation of series, continued fractions, ıd other algebraic topics. Prerequisite: Mathematics 65a or permission of the structor. 3 units. First semester. *MWF, 8.*

9. Theory of Equations. *Mr. Jaeger.* The theory and solution of algebraic ıd transcendental equations; determinants and matrices. Prerequisite: Mathe-atics 65a or permission of the instructor. 3 units. Second semester. *MWF, 8.*

5. Intermediate Calculus. *Mr. Hamilton.* Elements of solid analytic :ometry; infinite series, partial differentiation, multiple integration. Appli-tions. Prerequisite: Mathematics 65a, b. Credit will not be given for both athematics 125 and 150. 3 units. Second semester. *MWF, 9.*

0a, 150b. Intermediate Calculus and Vector Analysis. *Mr. Tolsted.* continuation of Mathematics 50a, b. This course combines the material in athematics 125 and vector analysis. Prerequisite: Mathematics 50a, b. 3 ıits. *MWF, 11.*

1a, 151b. Differential Equations. *Mr. Cooke.* A general course in ieory and applications. Prerequisite: Mathematics 65a, b. 3 units. *TThS, 10.*

2a, 152b. Advanced Calculus. *Mr. Tolsted.* Introduction to logic; limits, quences, continuity, improper integrals, uniform convergence, Taylor and ourier series, partial derivatives, and multiple integrals. Prerequisite: Mathe-ıatics 125. 3 units. *TThS, 9.*

194. Mathematical Statistics. *Mr. Hamilton.* The mathematical bases o statistical theories and methods, with applications from various fields. Pre requisite: Mathematics 65a, b. 3 units. First semester. *MWF, 9.*

195a, 195b. Actuarial Mathematics. *Mr. Jaeger.* Finite differences, inte polation formulas, approximations, summations, and probability. Prerequisite Mathematics 65a, b and 118. 3 units. *TThS, 8.*

197. Number Theory. *Mr. Jaeger.* Properties of integers, linear and quad ratic congruences, and algebraic numbers. Prerequisite: Mathematics 65a, b 3 units. First semester. *MWF, 10.*

198a, 198b. Selected Topics in Higher Mathematics. *Mr. Jaeger, Mr. Tolsted, Mr. Cooke.* Special work or reading not included in the preceding available in this course to students of proved ability. Prerequisite: Depar mental approval. 3 units. Arranged.

Mathematical Physics. For description, see Physics 191a, 191b.

PRE-ENGINEERING

A student may take from one to four units in each of the following course All courses numbered above 100 require instructor's approval for enrollmen Study and drawing period *M, T, W, Th,* or *F, 1:15-4 p.m.* Lectur arranged.

7. Engineering Drawing. *Mr. Grimm.* A basic engineering drawing cours including lettering, projection, visualization, and working drawings.

40. Descriptive Geometry. *Mr. Grimm.* The theory and principles o projection, including points, lines, plane sections, and development of surface Prerequisite: Two units of engineering drawing.

101. Architecture. *Mr. Grimm.* Basic work in architectural design inclu ing the development of a complete set of working drawings.

102. Mechanisms. *Mr. Grimm.* Practice in the graphical solution of machir mechanisms. (Offered in alternate years. Omitted in 1957-58.)

103. Topography. *Mr. Grimm.* Practice in topographic mapping and mod construction.

AVAILABLE AT CLAREMONT SUMMER SESSION

60. Surveying. *Mr. Grimm.* A basic surveying course. 3 units.

Military Science

mona College, in conjunction with Claremont Men's College, maintains General Military Science Unit, Senior Division, of the Reserve Officers' aining Corps, established under the National Defense Act for the purpose training students to become officers of the Army of the United States. e general purpose of the ROTC is to provide officers for the United tes Army Reserve; it also now constitutes the principal source of pro- ement of junior officers for the Regular Army. Under the provisions of Reserve Forces Act of 1955 all qualified ROTC graduates will be com- ssioned in the appropriate reserve component. Graduates of the pro- m who enter active military service for two or more years will acquire additional four-year obligation in the Reserve (total of six years). ose who are excess to Active Force requirements will be given six months active duty for training, following which they will remain in the Ready erve until the eighth anniversary of the receipt of their commissions. dents who demonstrate special aptitude or proficiency will be offered an portunity for an appointment in the Regular Army through the Dis- guished Military Graduate Program. For the past four years Regular rine Corps commissions have been proffered to the ROTC graduates his unit.

he General Military Science ROTC program consists of subjects and erial general in nature and scope so that the Department of the Army y appoint second lieutenants in the combat, administrative, and technical ices of the Army.

he courses include both classroom and out-of-doors instruction.

he instructors in the department are officers of the United States Army gned for duty at the college by the Department of the Army. The most lern weapons, equipment and types of instructional material are furnished ive the students practical experience in handling such equipment.

he four year program is divided into the Basic Course and the Advanced rse. Enrollment in the Basic Course is on a voluntary basis. Enrollment he Advanced Course is on a selective basis. After a student has enrolled ither course, the completion of the second year of that particular course mes a prerequisite for graduation.

ormally, the four year program for an incoming freshman without prior tary service or prior ROTC training would be as follows:

Freshman Year	1st year Basic ROTC Course	MS I
Sophomore Year	2nd year Basic ROTC Course	MS II
Junior Year	1st year Advanced ROTC Course	MS III
Summer Vacation	ROTC Summer Camp (6 weeks)	
Senior Year	2nd year Advanced ROTC Course	MS IV
Graduation	Appointment as 2nd Lieutenant United States Army Reserve	

The Basic Course is open to all physically fit male students who are Unite States citizens. ROTC enrollment does not interfere with participation i sports by students nor in other college activities. Uniforms, equipment an texts for the courses are issued to the students without charge.

Previous military service furnishes a basis for credit for Basic Cours instruction according to the individual's length of service, type of trainin and honorable discharge from the Armed Forces of the United States.

Enrollment in the Advanced Course (MS III and MS IV) is limited t selected members who have completed the Basic Course, or have receive equivalent credit. A student entering the Advanced Course must sign a agreement with the United States Government that he will devote fiv (5) class hours per week to Military Science during the academic year, tha he will attend an ROTC Summer Camp of six (6) weeks duration betwee his MS III and MS IV courses, and that he will accept an appointment as second lieutenant in the United States Army Reserve, if tendered. In co sideration of this agreement, students receive cash allowances from th Government equivalent to a scholarship of about $640.00 for the two (2 year period of the Advanced Course. (See page 50.)

After the completion of one academic semester, regularly enrolled studen are given an opportunity to sign a "deferment agreement." They may the be deferred from induction and service under the UMT&S Act until com pletion of both their ROTC and academic courses provided they remain i good standing. A college freshman who is eligible for MS II or III becaus of previous training, if selected for enrollment and authorized a period nonattendance, may be deferred during that period of nonattendance.

1a-1b. Military Science Course I. (Basic Course). *Staff.* Americ Military History; Organization of the Army and ROTC; Individu Weapons and Marksmanship; and School of the Soldier and Exercise Command (Drill). 2 units. Class *TTh, 8, 9* or *10;* drill, *M, 1:15-2:05.*

52a-52b. Military Science Course II. (Basic Course). *Staff.* Map a Aerial Photograph Reading; Crew-served Weapons and Gunnery; a School of the Soldier and Exercise of Command (Drill). 2 units. Cl *TTh, 8, 9,* or *10;* drill, *M, 1:15-2:05.*

103a-103b. Military Science Course III. (Advanced Course). *Staff.* C ganization. Function and Mission of the Arms and Services; Leadershi Military Teaching Methods; Military Sanitation and First Aid; Rifle Mark manship, Camouflage and Field Fortifications; Small Unit Tactics and Co munications; and School of the Soldier and Exercise of Command (Dril 3 units. Class *MWF, 8* or *9; F, 11* or *1:15;* drill, *M, 1:15-2:05.*

Military Science ROTC Summer Camp. (Advanced Course). *Camp Sta* Tactics and techniques; marksmanship and weapons training; marches a bivouacs; drills and parades; physical training and athletics; subjects pe nent to General Military Science. Six weeks, during the summer between t third and fourth year. Camp to be designated by Department of the Arm

;4a-154b. Military Science Course IV. (Advanced Course). *Staff.* Sup- y and Evacuation; Motor Transportation; Troop Movements; Military telligence; Estimate of the Situation and Combat Orders; Command and aff; Training Management; The Military Team; Military Administration; ilitary Justice; The Role of the United States in World Affairs and the esent World Situation; Leadership; Officer Indoctrination; and School of e Soldier and Exercise of Command (Drill). 3 units. Class *MWF, 8* or *9; 11* or *1:15;* drill, *M, 1:15-2:05.*

Modern Social Institutions

r students wishing to concentrate in the social sciences but whose needs d interests would be better served by a program of study somewhat broader tn the conventional departmental major, Pomona College offers a special ogram in Modern Social Institutions. This program, sponsored by the ivision of Social Sciences, draws upon the courses of several departments in effort to enable students to pursue studies focusing broadly on the con- nporary social scene. The program is especially suitable for persons antic- iting professional careers in the teaching of social studies in secondary sools or in the field of divinity. Many graduate schools of business, law, d social work strongly recommend undergraduate programs of this aracter.

The concentration requires certain core courses and advanced study in to of the three areas into which the program has been organized; American Social Institutions; Comparative Social Institutions; and Modern Social Thought. Interested students should consult Mr. Lee (Education), Mr. Mc- Donald (Government), or Mr. Scaff (Sociology).

SOCIAL INSTITUTIONS

Requirements for concentration. (a) 15 units in the following core courses: History 55a-b (History of the United States), Psychology 154 (Social Psy- chology), Religion 142 (Christianity and Modern Culture), and Modern Social Institutions 180 (Senior Seminar in Social Institutions). The last named course is the senior seminar for concentrators, culminating in a senior thesis which is counted as a part of the comprehensive examination.

b) At least 18 units of advanced study in the courses specified below, com- prising a major of 12 units in one area and a minor of 6 units in another.

1. *American Social Institutions.* Economics 110 (Industrial Organization and Business Policy), Economics 111 (Labor Economics), Education 105 (History of Education—United States), English 105 (American Literature), Govern- ment 103 (State and Local Problems), Government 157 (Parties and Pressure Groups), Sociology 110 (Race Relations), Sociology 112 (The American Com- munity).

II. *Comparative Social Institutions.* Economics 195 (Comparative Econom Systems), Education 104 (History of Education—European and Comparative Government 125 (Modern Democracies), Government 126 (Modern Tot itarianism—U.S.S.R.), Oriental Affairs 105 (Contemporary East Asia), R ligion 160 (Catholicism and Protestantism), Sociology 153 (Comparati Social Movements).

III. *Modern Social Thought.* English 162 (Contemporary Novelists), Educ tion 151 (Philosophy of Education), Government 182 (Political Theor Normative), Government 181 (American Political Thought), Philosophy 1 (Political Philosophy), Religion 104 (Contemporary Religious Thought), S ciology 154 (Modern Social Theory).

180. Senior Seminar in Social Institutions. *Staff.* Readings, research, a thesis preparation on contemporary social and institutional trends. The seni seminar for concentrators in Modern Social Institutions. Open to other senio with the instructor's permission. 3 units. Second semester. Arranged.

Music

The Department of Music offers instruction and opportunity for musi performance both to concentrators in the field and to non-concentrators.

Courses open to non-concentrators: Music Appreciation (53), Theory (1, 4), History and Literature (120, 121, 122, 123), Applied Music — voc and instrumental. Group activities open to all students include Colle Choir (57), Orchestra (58), Band (59), Chamber Music (60), and the G Clubs. Qualified students may be admitted by special action of the Departme to any course in music. Students likely later to concentrate in music are advis to take Elementary Theory (Music 1 and 2) immediately in order to avo crowding their senior year programs.

Requirements for concentration: The concentration program is designed bo for the pre-professional musician preparing for a career as teacher or perform and for the student who may have other vocational plans but wishes to maj in music as an undergraduate. All concentrators are strongly urged to acqui a reading knowledge of at least one foreign language.

The following courses are required of all students concentrating in musi Elementary Theory (1), Elementary Ear Training, Sight Singing, and Ke board Harmony (2), Intermediate Theory (55), Intermediate Ear Trainin Sight Singing, and Keyboard Harmony (56), Advanced Theory (107), and t two-year sequence in the History of Musical Style (120, 121, 122, 123).

In addition to the required courses listed above, one of the following are of concentration is required:

Applied Music: Music 111, 161, and Senior Recital.

Composition: Orchestration (113), Free Composition (158), and at leas units of Group Activities.

General Music: A choice of any of the offerings of the Department that will clude a minimum of 4 units of Applied Music, 8 units of Group Activities, d 8 units of Upper Division credit, at least 4 of which shall be in course rk.

Secondary School Music: Choral Conducting (117), Instrumental Conting (118), Rudiments in the Playing of Orchestral and Band Instruments (19), Orchestration (113), 4 units each in piano and voice (or equivalent), d work in Choir, Band, or Orchestra. In conjunction with the Claremont aduate School, Pomona College offers a five-year program in which music jors who intend to teach in the public schools may meet the requirements the General Secondary Credential. Such students will normally elect ondary School Music as their area of undergraduate concentration. All s dents preparing for the teaching credential should consult with the Clarent Graduate School about the state requirements as early as possible.

Transfer students. Students transferring from other institutions as juniors uld take Elementary Theory (1, 2) or its equivalent before coming to Pona. They will be given a theory placement test to determine their proper rse assignment and their transfer credit from previous college theory study.

THEORY, HISTORY, AND LITERATURE

1b. Elementary Theory. *Mrs. Briggs, Mr. Loucks.* Diatonic harmony and ple, free counterpoint with emphasis on original work in small forms. Prequisite: ability to read music and play an instrument. Must be accompanied 2a-2b. 3 units. *MWF, 11* or *1:15.*

2b. Elementary Ear Training, Sight Singing, and Keyboard Harmony. *s. Briggs, Mr. Loucks.* Practical application of the material of 1a-1b. 2 hours, nit. *MW, 10; TTh, 10.*

b. Materials of Music. *Mr. Loucks.* Basic theory for the layman: melody, mony, counterpoint, rhythm, form, notation and reading of music. 3 units. *WF, 10.*

-53b. Introduction to Music. *Mr. Dayton.* A survey of the principal iods in music history, with detailed study of representative works drawn n the symphonic, operatic, concerto, and chamber music literature. No vious musical experience required. 2 units. *MW, 2:15* or *3:15.*

-55b. Intermediate Theory. *Mr. Kohn.* Advanced harmony and further k in counterpoint. Original work in small forms, with emphasis on the es of Bach, Mozart, Beethoven, and the Romanticists. Must be accompanied 56a-56b. Prerequisite: Music 1 and 2. 3 units. *MWF, 11.*

-56b. Intermediate Ear Training, Sight Singing, and Keyboard rmony. *Mr. Kohn.* Practical application of the material of 55a-55b. 2 hours, nit. *M, 2:15; F, 1:15.*

60b. Chamber Music. *Mr. Fiske.* A study of important chamber music ature from the 17th century to the present day through performance and

analysis. Course also includes historical study of the works performed. Ope only to advanced instrumentalists able to participate in performance. Permi sion of instructor required. The course may be repeated for credit. 2 uni *M, 1:15-3:05,* and arranged.

107a-107b. Advanced Theory. *Mr. Loucks.* Two and three part writing contrapuntal forms: experience in free composition. Prerequisite: Music 55 a 56. 3 units. *MWF, 8.*

113a-113b. Orchestration and Instrumentation. *Mr. Blanchard.* Scoring f orchestra, band, and vocal groups. Opportunity for public performance of ou standing work. Prerequisite: Music 55 and 56. 3 units. *Th, 2:15-4:05;* thi hour arranged.

117. Choral Conducting. *Mr. Russell.* Technique of conducting, repertoi score analysis, rehearsal planning, chorus building. Prerequisite, choral expe ence and demonstration of sufficient ability in sight-singing and piano. Pe mission of instructor required. 2 units. First semester. *T, 2:15-4:05.*

118. Instrumental Conducting. *Mr. Fiske.* A course specifically design for students working for the State Music Credential. Baton techniqu beat formation in all rhythms, score reading, rehearsal problems, repertoi Permission of instructor required. 2 units. Second semester. *F, 1:15-3:0*

119a-119b. Rudiments in the Playing of Orchestral and Band Instr ments. *Mr. Blanchard, Mr. Fiske.* A course designed to give the student knowledge of the fundamentals of wind and string instruments throu study and practice. First semester: winds; second semester: strings. 2 uni *TTh, 1:15.*

The following four courses (120, 121, 122, 123) comprise a two-year s quence in the history of musical style. Study by formal analysis, cla performance, and guided listening, of a repertoire selected to exempli the respective periods stylistically and chronologically, with supplementa readings in the basic works of history and reference. Permission of t instructor required for non-concentrators. Concentrators must take t sequence in order, one course per semester.

120. Music of the Middle Ages and the Renaissance. *Mr. Russell.* 3 un First semester. *MWF, 9.*

121. Music of the Baroque and Pre-Classical Periods. *Mr. Kohn.* 3 uni Second semester. *MWF, 9.*

122. Music of the Classical Period and the 19th Century. *Mr. Fiske.* units. First semester. *TThS, 9.*

123. Music of the 20th Century. *Mr. Dayton.* 3 units. Second semest *TThS, 9.*

158a-158b. Free Composition. *Mr. Kohn.* Studies in the elements of co temporary techniques, and original work intended to develop the studen sense of musical structure and style. Permission of the instructor require 3 units. *W, 1:15-3:05;* third hour arranged.

191a-191b. Program Planning and Interpretation. *Staff.* Planning and performance of the Senior Recital. Open only to music majors who have passed the upper division qualifying examination in applied music. 4 units (2 units in semester preceding recital and 2 units in semester of recital, or 4 units in recital semester only). Credit granted only upon completion of recital. Arranged.

AVAILABLE AT SCRIPPS COLLEGE

169. Nineteenth Century Music. *Mr. Pattison.* Year course. *TTh, 1:15-2:15.*

111. Renaissance to Baroque Music. *Mr. Pattison.* Year course. *TTh, 3:15-4:45.*

GRADUATE STUDY IN MUSIC

Graduate work in Theoretical and Applied Music is offered under the auspices of the Claremont Graduate School.

GROUP ACTIVITIES

Open to all students in the college, subject to the following regulations: (1) permission of the instructor is required for Orchestra (58) and Band (59), (2) not more than two group activities may be taken simultaneously for credit, and (3) a total of not more than 16 units of credit for group activities may be counted toward the Bachelor of Arts degree.

51, 57b. College Choir. *Mr. Russell.* The study of classic and contemporary choral music through rehearsals leading to public performance. All students are eligible for the Choir, but continued membership is contingent upon satisfactory performance in a singing test held in October on music practiced during the opening weeks of the semester. New members admitted in first semester only. Fee to cover cost of music, $2.00. 1 unit. May be repeated for credit. *MWThF, 12:30-1:05; T, 11:30-12:20.* (Women do not meet on *Th;* men do not meet on *M.)*

51, 58b. Orchestra. *Mr. Fiske.* A study of major works of orchestral repertoire and application of the principles of orchestral routine through public performance. Two periods of attendance weekly. Additional sectional rehearsals at option of director. The course may be repeated for credit. 1 unit. *Th, 4:15.*

51, 59b. Band. *Mr. Russell.* Concert and field work, brass ensemble work, joint performance with choral groups, opportunity for performance of student compositions and arrangements. Two rehearsals weekly. 1 unit. May be repeated for credit. *MW, 4:15.*

Men's and Women's Glee Clubs. *Mr. Russell.* The Glee Clubs offer opportunity for performance in a small extra-curricular ensemble, both on and off campus. New members admitted by tryout only, at the opening of the college year. All students are eligible. Normal schedule: two rehearsals weekly. No credit.

APPLIED MUSIC

Study in Applied Music is open to all students. It may be taken either wit credit or without, subject to the following provisions:

General. All students must pass qualifying examinations to establis eligibility for credit. Credit of 1 unit per semester is given for one privat lesson weekly, 2 units per semester for two private lessons weekly. All privat lessons are one-half hour in length. No credit is given for elementary study No credit is given for work in Applied Music taken elsewhere.

Non-concentrators. Non-concentrators become eligible for a maximum o 4 units of Lower Division credit by passing the Lower Division qualifyin examination. For more than 4 units of Lower Division credit they must tak Elementary Theory (1) and Elementary Ear Training, Sight Singing, an Keyboard Harmony (2), or Materials of Music (4), either preceding or ac companying the additional work in Applied Music. Intermediate Theory (55 and Intermediate Ear Training, Sight Singing, and Keyboard Harmony (56 must precede or accompany all work for Upper Division credit.

Concentrators. Music 1 and 2 must precede or accompany all credit stud by concentrators in music. Music 55 and 56 must precede or accompany a work for Upper Division credit. Concentrators in Applied Music are require to take two lessons per week in their major subject and to appear frequently i recitals.

Qualifying examinations. Students working for credit in Applied Musi are enrolled in two categories: Lower Division (Music 11, 61), and Uppe Division (Music 111, 161). The passing of a qualifying examination is re quired for entrance into either category. These examinations are normall given at the beginning of each semester. Arrangements for the examinatio should be made through the Applied Music instructor. Printed informatio concerning the qualifying examinations may be obtained at the Music Depar ment office.

Limit of credit toward degree. A total of not more than 16 units of applie Music may be counted toward the Bachelor of Arts degree, normally to com prise 8 units in Lower Division and 8 in Upper Division. Students no sufficiently advanced to qualify for Upper Division credit may count a tota of not more than 12 units of Lower Division credit. All Applied Music study whether for credit or not, is recorded on the student's college transcript.

11. Applied Music, Freshman level.
61. Applied Music, Sophomore level.
111. Applied Music, Junior level.
161. Applied Music, Senior level.

Voice, *Mrs. Briggs, Mr. Pilon.*
Organ, *Mr. Blanchard.*
Piano, *Mr. Dayton, Mr. Kohn, Mrs. Briggs.*
Violin and Viola, *Mr. Fiske.*

VIOLONCELLO, *Miss Jean.*
HARP, *Mrs. Remsen.*
FLUTE, *Mr. Stevens.*
OBOE, *Mrs. Geller*
CLARINET, *Mr. Bloch.*
FRENCH HORN, *Mr. Pyle.*
TRUMPET, TROMBONE, *Mr. Tyler.*

Lessons on other instruments may be arranged through the office of the Department.

FEES FOR INSTRUCTION	PER SEMESTER
For those paying regular tuition:	
One-half hour private lesson per week	$45.00
Each additional half-hour	40.00
For those carrying less than ten hours of college work, exclusive of work in applied music:	
One-half hour private lesson per week	70.00
Each additional half-hour	50.00
Class instruction	25.00

PRACTICE FEES	PER SEMESTER
Piano, one hour daily	6.00
Edges Hall Organ (four manuals), one hour weekly	5.00
Two-manual Organ, one hour weekly	2.50
Edges Auditorium Organ, Claremont College, (advanced students only) one hour weekly	15.00

Students in Music 1, 55, 107, 113, and 158 will be charged $6.00 per semester for the use of a practice piano unless they are already paying one of the above practice fees.

Oriental Affairs

A student concentrating in Oriental Affairs must take Oriental Affairs 51 and at least one year's work in Asian language. Twenty-four hours of upper division work are required. These hours should be selected from the following courses: Oriental Affairs 103, 104, 105, 106, 111, 123, 140, 160; Philosophy 126.

51 THE CULTURAL LEGACIES OF EAST ASIA. *Mr. Ch'en.* A survey of the humanistic achievements of China and India, and their diffusion in other lands in East Asia. 3 units. First semester. *MWF, 10.*

52a, 52b. INTRODUCTION TO THE CHINESE LANGUAGE. A course for beginners in the Chinese language, with equal emphasis on the analysis of written characters and on actual use of the spoken language. 3 units. (Omitted in 1957-58.)

103a, 103b. History of China. *Mr. Ch'en.* General survey of China's cultu history. An effort will be made to interpret the complexities of the probl of present day China in the light of her ancient cultural heritage. 3 un *MWF, 9.* (Omitted in 1957-58.)

104. Chinese Literature in Translation. *Mr. Ch'en.* A study of o standing Chinese literary works in English translation with the aim of deeper appreciation of Oriental life and thought. 3 units. Second semest *MWF, 10.*

105. Contemporary Eastern Asia. *Mr. Ch'en.* Introduction to the cultu background, political institutions, leadership, social organization, econon development, and external relations of the peoples of Japan, China, Kor the Philippines, and Malaysia. 3 units. First semester. *W, 7:30-9:30 p. m.*

106. Contemporary Southern Asia. *Mr. Goodall.* Introduction to the c tural background, political institutions and leadership, social organizati economic development, and external relations of the peoples of India, Pakist Ceylon, Burma, and the Himalayan states. 3 units. Second Semester. *MWF,*

111. History of Japan. *Mr. Ch'en.* The evolution of Japanese social, e nomic, and political institutions since prehistoric times. Geographical foun tions and the development of Japanese philosophy, literature and the fine a 3 units. First semester. *MWF, 9.*

123. Eastern Asia in the Nineteenth Century. *Staff.* Traditional patte of life and institutions in China and Japan, and to a lesser extent under old regimes in Korea, Siberia, and Southeast Asia. The impact of West imperialism and civilization upon those countries. 3 units. First semest (Omitted in 1957-58.)

140. History of Cultural Relations Between China and the Occide *Mr. Ch'en.* A rapid survey of the religious, intellectual, literary and artis relations and interchanges between China and the Western World fr Greco-Roman times to the middle of the nineteenth century. 3 units. Seco semester. *W, 7:30-9:30 p.m.*

160. History of Asian Diplomacy. *Mr. Goodall.* Diplomatic relations of Western Powers with Asian countries. 3 units. First semester. *MWF, 11*

195. Readings in Oriental Affairs. *Staff.* Prerequisite: one course in O ental Affairs and permission of instructor. 2 or 3 units. Each semester. M be repeated for credit. Arranged.

Europe and Asia. For description see History 2.

Oriental Philosophy. For description see Philosophy 126.

Art of the Far East. For description see Art 117a, 117b.

AVAILABLE AT CLAREMONT GRADUATE SCHOOL

251a, 251b. Advanced Chinese.

Philosophy

istribution Requirement: Either Philosophy 57, or two courses from the hilosophy 110, 111, 112 series.

Concentration: Twenty-four units of upper division work, including four urses from the Philosophy 110, 111, 112, 113, 114 series. Philosophy 51 is ongly recommended. Those intending to do graduate work in philosophy ould have a reading knowledge of French and German.

Honors Study: Information may be obtained from the Department.

Joint Concentrations:

Philosophy and Classics. Classics 51 or 57 or equivalent (two or more years Greek or of Latin at secondary school level) and Philosophy 57 are the wer division requirements. Students electing the concentration must choose m each of the groups below at least the number of units specified.

oup I	(15 units):	Classics 101, 117, 118, 181, 182.
oup II	(15 units):	Three courses from among Philosophy 110, 111, 112, 113, 114 series and two additional upper division courses in Philosophy.

Philosophy and History. History 1 and 55 and Philosophy 57 are the lower ision requirements. Students electing the joint concentration must choose m each of the groups below at least the number of units specified.

oup I	(9 units):	History 140, 190, and one pro-seminar.
oup II	(6 units):	History 101 or 102 or 103a or 103b or 107a or 108.
oup III	(6 units):	History 107b or 109 or 110 or 113a or 113b.
oup IV	(15 units):	Four courses from the Philosophy 110, 111, 112, 113, 114 series, and one additional upper division course in Philosophy.

The comprehensive examination will consist of three parts: the general tory examination, one subject field in History selected by the student, and general History of Philosophy examination, which will take into con- ration the additional upper division work done in Philosophy.

Philosophy and Literature. English 50 and Philosophy 57 are the lower ision requirements. Students electing the joint concentration must choose m each of the four groups below at least the number of units specified.

oup I	(6 units):	English 153 or 154 or 155 or 156.
oup II	(9 units):	English 101 or 102 or 103 or 104.
oup III	(6 units):	English 105 or 115 or 160 or 162 or 163.
oup IV	(15 units):	Four courses from the Philosophy 110, 111, 112, 113, 114, series, and one additional upper division course in Philosophy.

Students in the joint concentration will be examined in both fields in t comprehensive examination at the end of the senior year.

Philosophy and Religion. Religion 1, 2 and 65 and Philosophy 57 are t lower division requirements. Students electing the joint concentration m choose from each of the groups below at least the number of units specified

Group I (15 units): Religion 101, 103, 104, 160, and one additio upper-division course in Religion.

Group II (15 units): Four courses from among the Philosophy 110, 1 112, 113, 114 series, and one additional upp division course in Philosophy.

51. Introduction to Logic. *Mr. Iredell.* The elements of deductive a inductive reasoning with special emphasis upon scientific hypotheses, pro bility, and fallacies. 3 units. First semester. *MWF, 8.*

52. Introduction to Ethics. *Mr. Sontag.* Unamuno's *A Tragic Sense of Li* Nietzsche, and Plato used as a basis to discuss what ethical theory is and h it relates to such issues as right and wrong, good and evil. Second semest *MWF, 11.* (Open to Freshmen by permission of the instructor.)

57a, 57b. Problems of Philosophy. *Staff.* Consideration of the meaning a method of philosophy, and of such problems as ethics, theory of kno edge and metaphysics. 3 units. Four sections, *MWF, 9, 10; TThS, 8, 9.*

History of Philosophy series: Five semester courses, normally taken sequence, designed to present the history of western philosophy throu primary source readings, lectures and discussion.

110. Classical Philosophy. *Mr. Sontag.* From the beginnings of philosop thought to the start of the Christian period, including the Pre-Socratics, Pla Aristotle, the Stoics and the Epicureans. 3 units. First semester. *MWF, 11*

111. Medieval Philosophy. *Mr. Sontag.* From St. Augustine to Duns Scot including the Pseudo-Dionysius, Scotus Eriugena, Anselm, Bonaventure a Thomas Aquinas. 3 units. Second semester. *TThS, 10.*

112. Modern Philosophy. *Mr. Beckner.* From the Renaissance to Kant, cluding Bacon, Descartes, Leibniz, Spinoza, Locke, Berkeley and Hume. units. Second semester. *MWF, 11.*

113. The Nineteenth Century. *Mr. Kaufman.* From Kant to Nietzsc including Hegel, Schopenhauer, Mill, Comte, and Marx. 3 units. Seco semester. *MWF, 10.*

114. Contemporary Philosophy. *Mr. Beckner.* A study of the philosop thought of the 20th Century, with special reference to the dominant ideas the civilization of today. 3 units. First semester. *MWF, 9.*

116. Symbolic Logic. An introduction to symbolic logic, including the re tions between ordinary language, traditional logic and the modern theory meaning. 3 units. (Omitted 1957-58.)

3. Metaphysics and Ontology. *Mr. Sontag.* A speculative inquiry into the fundamental questions of existence, with special attention to being and nonbeing, infinite and finite, substance, unity, and time. 3 units. Second semester. *TThS, 9.* (Offered in alternate years. Omitted in 1957-58.)

4. Philosophy of Religion. *Mr. Sontag.* A study of the relationship of philosophy, theology and religion, including the questions of God's existence, God's nature, the nature of man and the claims of Christianity. 3 units. Second semester. *TThS, 10.* (Offered in alternate years. Omitted in 1957-58.)

6. Oriental Philosophy. *Mr. Iredell.* A study of some of the important thinkers and schools of oriental philosophy, and a comparison of oriental and western philosophical views and cultural ideals. 3 units. Second semester. *MWF, 8.*

7. Political Philosophy. *Mr. Jones.* A study of the state, the individual, society, freedom, law, rights, and duty, emphasizing applications to currently competing systems. Second semester. *MWF, 9.* (Offered in alternate years. Omitted in 1957-58.)

8. The Philosophy of Plato. *Mr. Sontag.* A study of the dialogues of Plato, uncovering the complete Platonic metaphysics, theory of knowledge and ethics. 3 units. (Omitted 1957-58.)

9. The Philosophy of Kant. *Mr. Kaufman.* Reading and discussion of Kant's three *Critiques* and his work on religion, with the objective of gaining a balanced view of Kant's philosophy. 3 units. (Omitted 1957-58.)

12. Kierkegaard and Existentialism. *Mr. Sontag.* An attempt to understand what modern Existentialism means as an approach to life, through a reading of Kierkegaard's writings, and by a comparison with Sartre and Nietzsche. First semester. *TThS, 10.*

15. Philosophy and Poetry. *Mr. Jones.* A study of four philosophical poets—Lucretius, Dante, Goethe, and T. S. Eliot. 3 units. (Omitted 1957-58.)

15 Philosophy of Science. An explication of problems inherent in the nature of scientific method and theory. A survey of the historical background of some key ideas in science, with emphasis on the logical analysis of basic scientific operations, concepts and theories. 3 units. (Omitted 1957-58.)

19 Senior Research Project. *Staff.* Independent reading and study on a topic of the student's choice, culminating in a major research paper. The course may be repeated for a total of six units. 3 units. Each semester. Arranged.

History of Political Thought. See Government 182.

Introduction to the Philosophy of Education. See Education 151.

AVAILABLE IN SCRIPPS COLLEGE

V 5. Philosophy of Religion. *Mr. Greene.* Second semester. *MWF, 10.*

V 7. Logic. *Mr. Barrett.* Second semester. *MWF, 11.*

IV-156. Social and Political Philosophy. *Mr. Barrett.* First semester. *MWF 10.*

IV-160. Contemporary Philosophy. *Mr. Barrett.* Second semester. *MWF, 10*

IV-161. Philosophy of Art. *Mr. Greene.* Second semester. *MWF, 11.* Open to qualified juniors and seniors by permission of the instructor.

AVAILABLE IN CLAREMONT MEN'S COLLEGE

110. Philosophy of Ideas. *Mr. Alamshah.* 3 units. First semester. Arranged

160. Selected Problems in Philosophy. *Mr. Alamshah.* 3 units. Second semester. Arranged.

Physical Education

A student is required to take one unit of Physical Education Activities per semester during his Freshman and Sophomore years, and one-half unit per semester during his Junior and Senior years.

CONCENTRATION IN PHYSICAL EDUCATION

This program, followed by a year of graduate work, will qualify the student for the general credential with a major in physical education. It will also qualify the student for further study in physical therapy, occupational therapy, and recreation. Students interested in the three latter fields should confer with some member of the physical education department during the freshman year since slight changes in the following program may be needed to qualify for entrance to some of these fields.

In order to complete all required courses in the four year college period students should take courses in the year in which they are suggested below.

Freshman Year: Biology 1, English 1, Physical Education 5, Speech and Drama 32, 102.

Sophomore Year: Zoology 37, Education 101, Psychology 51, Sociology 51 and 52.

Junior Year: Physical Education 123, 124, 129, 152, 118 or 119 (women), 191 (men), 192 (men), Psychology 107. Suggested: Music 53, Physical Education 224.

Senior Year: Physical Education 126, 154, 192 (men), 130 (women), 118 or 119 (women), Psychology 108.

In addition to the above, 6 units of physical education activities are required. It is suggested that these be so selected as to give the individual opportunity for both technical skills and leadership training in a wide range of activities.

A reading knowledge of French or German is highly desirable for students planning graduate research in physical education.

A non-credit Camp Counselor's training course for women is held throughıt the year. The course aims to provide its members with experience and skills seful in summer camps, playgrounds, and other activities of community creation. (Given when there is sufficient demand.)

THEORY

Principles of Healthful Living. *Staff.* A consideration of factors that fluence the physical and mental health of people as individuals and as memrs of society. Includes methods for the promotion of the health of the dividual with emphasis on special health problems of college students and ung people generally. 3 units. First semester. *MWF, 10.*

8a, 118b. (Women). Methods of Teaching Individual and Dual Sports. *aff.* Analysis of techniques and methods of presenting individual and dual orts at the elementary and secondary school levels, in camp and playground uations. Supervised teaching of the individual and dual sports in college asses. Prerequisite: minimum skill in the following physical education acrities: archery, badminton, swimming, tennis. 2 units. *TTh, 9* and arranged. Given in alternate years.)

9a, 119b. (Women). Methods of Teaching Team Sports. *Staff.* Analysis techniques and methods of presenting team sports at the elementary and condary school levels, in camp and playround situations. Supervised teaching the team sports in college classes. Prerequisite: minimum skill in the followg physical education activities: basketball, hockey, softball, speedball, volleyll. 2 units. *TTh, 9.* (Given in alternate years. Omitted in 1957-58.)

3. Nature and Function of Play. *Miss Cawthorne.* The psychology of ıy and the function of play in growth, development, social adjustment and mocracy. Special attention is given to the elementary school physical educatn program. First semester. 2 units. *TTh, 8.*

4. Community Recreation. *Miss Cawthorne.* The history, organization d administration of municipal and private recreation (including camping) the United States. Methods of conducting a varied activity program. Second mester. 2 units. *TTh, 8.*

6. Community Hygiene. *Staff.* A survey of the field of public health and sitation. A summary of public health agencies, extensive study of public and ivate water supplies, disposal of wastes, control of food and dairy products, d mental, industrial and school hygiene. Second semester. 3 units. *MWF, 10.*

9. Kinesiology. *Miss Cawthorne.* An analysis of joint and muscular chanisms, and their relation to problems of bodily development and eciency and the teaching of physical activities. Prerequisite: Zoology 37. 3 its. First semester. *MWF, 8.* (Omitted in 1957-58.)

30a, 130b. The History and Teaching of Dance. *Staff.* Analysis of t problems and techniques of teaching rhythms at the elementary or high s ool level. First semester: historical background of folk dance and teaching

elementary rhythms and folk dance. Second semester: Historical backgroun and methods of teaching contemporary dance at the secondary school level. On hour lecture, two hours laboratory, each semester. 2 units. Lecture *M, 10* laboratory *WF, 10.* (Omitted in 1957-58.)

152. Physical Deviations. *Miss Cawthorne.* Study of body mechanics an the causes, prevention, and correction of physical defects. Methods of examina tion, prescription of exercises. Prerequisite: 129 or permission of instructor. units. Second semester. *MW, 8;* and laboratory *F, 8-10.* (Omitted in 1957-58.)

154. Principles of Physical Education. *Mr. Malan.* A study of Physica Education Philosophy including the scientific bases and the historical back ground of the profession, the development of guiding principles, and th relation of those principles to current practices. Limited to junior and senio majors in Physical Education and minors in Education. 3 units. Secon semester. *MWF, 11.* (Omitted 1958-59.)

191a, 191b. (Men). Methods of Teaching the Major Sports. *Staff.* study of the theories and techniques in teaching and coaching the majo sports of the school physical education program. Limited to junior and senio majors and minors in Physical Education and Education. Others must hav permission of department. 2 units. *TTh 1:15* and arranged.

192a, 192b. (Men). Methods of Teaching Minor Sports. *Mr. Strehle.* study of the theories and techniques in teaching the minor sports and othe physical education activities. Limited to junior and senior majors and minor in Physical Education and Education. Others must have permission of depart ment. 2 units. *MW, 2:15* and arranged.

224. Organization and Administration of Physical Education. *Mr. Strehle* Required for teaching credential. 3 units. *Th, 7-9 (Available at the Claremon Graduate School during Summer Session when there is sufficient demand.)*

MEN'S ACTIVITIES

Students engage in programs of physical education activities selecte according to individual needs as determined by medical and physical exam inations and tests. Complete freedom in the choice of activities is permitte only to men who maintain acceptable standards in health, physical develop ment, and physical efficiency. Among the minimum requirements of th Department are good posture, ability to swim, elementary skill in self defense proficiency in fundamental activities, reasonable skill in at least one individua sport and in one team game.

The following physical education activities are carried on under super vision of the Department: Archery, badminton, baseball, basketball, boxing corrective exercises, cross country running, dancing, fencing, football, golf gymnastics, American Red Cross life saving, skiing, soccer, softball, swim ming and diving, tennis, touch football, track and field athletics, tumbling volleyball, water polo, weight lifting, and wrestling. Co-educational classe are sponsored also with the Women's Department. Fees as indicated ar

quired each semester of those who select archery ($1.50), fencing ($7.00), lf, ($12.50).

The Department conducts a competitive intramural program including orts in season.

The college program of intercollegiate athletics is an integral part of the ogram of Physical Education. No student is permitted to participate in e more strenuous forms of competition without a certificate from the College ysician indicating that the individual is physically fit for such participation.

The student obtains credit in the required courses listed below by partici- tion in activities selected in accordance with the principles set forth in the eceding paragraphs.

-1b. Physical Education Activities. *The Staff.* Required, Freshman year unit. Arranged.

-2b. Physical Education Activities. *The Staff.* Required of Freshmen t taking Military Science. ½ unit. Arranged.

a-53b. Physical Education Activities. *The Staff.* Required, Sophomore ar. ½ unit. Arranged.

a-54b. Physical Education Activities. *The Staff.* Required of Sopho- res not taking Military Science. ½ unit. Arranged.

5a-105b. Physical Education Activities. *The Staff.* Required, Junior yr. ½ unit. Arranged.

7a-107b. Physical Education Activities. *The Staff.* Required, Senior yr. ½ unit. Arranged.

WOMEN'S ACTIVITIES

Medical and physical examination is given all entering students with subse- cent posture tests. Physical activities are allowed or prescribed as the result othese examinations. Participation in a Fundamental Activity is required one semester of the Freshman year. Students may have freedom of election in o.er activities in so far as medical and physical examinations warrant, but nist include by the end of the Sophomore year one individual sport and o: semester of some form of dancing. The passing of a swimming achieve- nnt test is required for graduation. It should be completed by the end of the Sophomore year.

Activity fees are charged for badminton, and archery ($1.50 semester), golf (2.50 semester), fencing ($7 semester), social dancing ($10 semester), riding (8 semester).

ix units of Physical Education Activities are required for graduation. One- hf unit is credited for Fundamentals, which includes courses organized to each the basic fundamentals of physical activity. The remaining 5½ units ny be earned by participation in other activities.

Freshmen and Sophomores must arrange their activities so that classes a taken on M, T, W, and Th.

Fundamentals: contemporary dance, ballet, individual gymnastics, group gymnastics, body mechanics, stunts and tumbling.

Team Sports: basketball, softball, speedball, hockey, volleyball.

Individual Sports: archery, badminton, tennis, golf, swimming, fencing, bowling, riding.

Dancing: contemporary, folk and square, social, ballet.

Recreational Games: table tennis, paddle tennis, etc.

11a-11b. Fundamentals and Other Activities. *The Staff.* Required, Freshman year. ½ unit. Arranged.

12a-12b. Sports or Dancing. *The Staff.* Required, Freshman year. ½ unit. Arranged.

63a-63b. Physical Education Activities. *The Staff.* Required, Sophomore year. ½ unit. Arranged.

64a-64b. Physical Education Activities. *The Staff.* Required, Sophomore year. ½ unit. Arranged.

115a-115b. Physical Education Activities. *The Staff.* Required, Junior year. ½ unit. Arranged.

117a-117b. Physical Education Activities. *The Staff.* Required, Senior year. ½ unit. Arranged.

Physics

The Lower division preparation for a concentration includes Physics 51 and 52, Mathematics 50 or 65 and Chemistry 1. The minimum concentration includes 26 units of upper division physics, including Physics 142, and Mathematics 150b and 151. Additional work in chemistry, engineering drawing and mathematics is recommended. The minimum concentration will normally be elected by those who plan to use physics in combination with training in some other field, and who do not plan to do graduate work in physics.

A student who plans to do graduate work in physics will normally add to the above courses Physics 191 and 192. He is expected to establish a good foundation in chemistry and mathematics and to acquire a reading knowledge of German.

All students concentrating in physics will consult with the physics staff about their concentration examination during the first week of their senior year.

1a, 1b. Introduction to Physical Science. *Mr. Fryer.* Intended for those wishing to obtain a knowledge of physics and related topics from the other physical sciences. The historical aspects of physical science with emphasi

on the method of science and the persons who have contributed to the esent understanding. Illustrated by numerous experimental demonstrations d films. Fee $5.00 each semester. 3 units. *MWF, 10.*

a, 51b. General Physics. *Mr. Fowler.* Mechanics, heat, sound, light, elec- icity and magnetism, and an introduction to atomic physics. This course, gether with Physics 52, is planned especially for those students who expect continue studies in physics, chemistry, engineering or medicine. Prereq- site: Mathematics 1. Open to freshmen only by permission of the Depart- ent Staff. 3 units. *TThS, 8.*

a, 52b. General Physics Laboratory. *Mr. Henke and the Staff.* Quanti- tive laboratory problems selected from the subjects treated in Physics 51. ysics 51 or equivalent must accompany or precede this course. Laboratory e $3.00. 1 unit. *MTWTh* or *F, 1:15-4:05.*

1a, 101b. Atomic and Nuclear Physics. *Mr. Miller.* Introduction to the perimental and theoretical foundations of modern atomic and nuclear ysics. Prerequisites: Physics 51, Mathematics 50 preceding or 65 con- rrently. 3 units. *TThS, 8.*

0. Heat and Thermodynamics. *Mr. Henke.* The principles of thermo- namics and kinetic theory. The first and second laws of thermodynamics d their application will be emphasized. Prerequisites: Physics 51, Mathe- atics 65. 3 units. First semester. *MWF, 9.*

3a, 113b. Mechanics. *Mr. Henke.* Kinematics, dynamics, and statics of rticles and rigid bodies with applications to problems of physics and engi- ering. Prerequisite: Physics 51, Mathematics 151 preceding or accompany- g the course. 3 units. *TThS, 9.*

1a, 141b. Electricity and Magnetism. *Mr. Fryer.* Electrostatics and elec- odynamics, electrical circuit theory, thermionics, and introductory electro- agnetic field theory. Prerequisites: Physics 51, Mathematics 151 preceding accompanying the course. 3 units. *MWF, 8.*

2a, 142b. Electrical Measurements Laboratory. *Mr. Fryer.* The st semester is concerned with direct-current measurements and the use standard bridge circuits. The second semester emphasizes alternating-cur- nt circuits and vacuum tube devices commonly employed in physical and gineering laboratories. Laboratory fee $4.00. 1 unit. *T, 1:15-4:05.*

3. Optics. *Mr. Fowler.* Theory and applications of physical optics with phasis upon the phenomena of interference, diffraction and polarization of ht. Prerequisites: Physics 51, Mathematics 151 preceding or accompanying e course. 3 units. Second semester. *MWF, 9.*

1a, 191b. Mathematical Physics. *Mr. Fowler, Mr. Miller.* Application mathematics to selected subjects in classical and quantum physics. Prerequi- es: Physics 51, Mathematics 151 and approval of the instructor. 3 units. *WF, 11.*

192a, 192b. Advanced Physics Laboratory. *Staff.* Experimental study of selected physical problems with emphasis on modern techniques in optical atomic and nuclear physics. Prerequisite: Departmental approval. Laboratory fee $4.00. 1 unit. *Th, 1:15-4:05.*

199. Selected Topics in Physics. *Staff.* Special work in certain advanced subjects not treated in the other courses of the department is available to students of proven ability. Prerequisite: Departmental approval. 1 to 3 units. Each semester. May be repeated for credit. Arranged.

Psychology

Students concentrating in Psychology are required to take Psychology 51 and 24 units of upper division courses including specifically: Psychology 102, 103 192a or 192b and 194a and 194b. Six hours of the upper division concentration requirements may be satisfied by offering Education 101, 190, Philosophy 153, Mathematics 118, English 151, Biology 112, Anthropology 160, Sociology 154, or Zoology 121.

Students planning to go on to graduate school are advised to have an adequate preparation in the physical sciences, and to obtain a knowledge in German and French.

Psychology 51 is a prerequisite for all other courses in the department except Psychology 102 and 171. Ordinarily, students will take 51 followed by an area course of their choice (e.g. industrial, child, social) in order to appreciate the application of the basic principles learned in 51.

51. Introduction to Psychology. *Staff.* Fundamental principles of human behavior. 4 units. Three sections. First semester, *MWF, 8, TThS, 9, 10.* Second semester, *TThS, 9.* Demonstration session, *W, 3:15-4:00.*

102. Psychological Statistics for Behavioral Sciences. *Mr. Cahill.* Descriptive and analytic statistical procedures including correlation, probability and test of significance. (Credit will not be given for both Economics 57 and Psychology 102.) 3 units. First semester, lecture *MWF, 10,* laboratory *M* or *W, 2-4.*

104a. Introduction to Experimental Methods in Behavioral Sciences. *Mr. Cahill.* Discussion and demonstration of methods of studying psychological problems and evaluating data. Laboratory experiments. Laboratory fee $3.50. Prerequisite: Psychology 51 and 102 or permission of instructor. 3 units. Second semester. *MWF, 10.* Laboratory, *M* or *W, 2-4.*

105. Psychology with Application to Business and Industry. *Mr. Bell.* Discussion of principles of psychology with application to business, industry and government. 3 units. Second semester. *MWF, 8.*

106. Psychology of Personal Adjustment. *Mr. Bell.* A consideration of the personal problems of living a normal life in a complex modern society. 3 units. Second semester. *MWF, 11.*

)7. Educational Psychology. *Mr. Faust.* Practical applications of psy-ıology to education. 3 units. Second semester. *TThS, 10.*

)8. Child Psychology. *Mr. Faust.* A survey of development and behavior the young child. 3 units. First semester, *TThS, 9;* second semester, *MWF,* .

7. Physiological Psychology. *Staff.* Physiological and neural aspects psychological functions. Permission of instructor required. 3 units. (Omitted 1957-58.)

;1. Abnormal Psychology. *Mr. Cahill.* Problems of maladjustment, factors ntributing to mental disorders, methods of diagnosis and therapy. 3 units. cond semester. *MWF, 9.*

4. Social Psychology. *Mr. Bell.* Examination of the psychological ctors of group behavior, with special emphasis on language behavior, intra-oup and inter-group communication. 3 units. Second semester. *MWF, 9.*

5. Individual Differences. *Mr. Bell.* A study of the measurement of in-vidual differences and the theory of test construction. Application to educa-n, industry, counseling and clinical situations. Psychology 102 or mathe-ıtical background is advisable. 3 units. First semester. *MWF, 9.*

8. Psychology of Adolescence. *Mr. Faust.* The study of later childhood d adolescence. Prerequisites: Psychology 108. 3 units. Second semester. *ThS, 8.*

0. Theories of Learning. *Mr. Faust.* Examination and evaluation of ories of learning, including current research and application of learning nciples to human behavior. 3 units. Prerequisite: 12 units of psychology. st semester. *M, 2-4.*

1. Introduction to Behavioral Theories. *Staff.* An advanced seminar in problems of theory construction and model constructs in all the behavioral ences. Registration limited by permission only. Second semester. Arranged.

2. Systems of Psychology. *Mr. Cahill.* A discussion of contemporary tems of psychology with special emphasis placed upon Behaviorism, Gestalt chology, and Psychoanalysis. 3 units. First semester. *MWF, 9.*

3. Theories of Personality. *Mr. Bell.* A critical examination and evalua-n of current theories of personality. 3 units. First semester. *MWF, 11.*

4. Reading and Research. *Staff.* Individual work on special topics. May repeated for credit. Three hours are required of students who are concen-ıing in psychology. Either semester. 1-3 units. Arranged.

a, 194b. Senior Reading Course. *Staff.* A course designed to supple-nt and integrate the different courses offered to meet the concentration uirement in psychology and to prepare students for the comprehensive mination. Required of seniors who are concentrating in psychology. 3 ts. *TTh, 1:15-2:30.*

AVAILABLE AT SCRIPPS COLLEGE

IV-110. CHILD DEVELOPMENT. *Mrs. Jones.* Prerequisite, Elementary Psychology. Year course. *MWF, 11.*

IV-112. CHILD STUDY IN THE NURSERY SCHOOL. *Mrs. Jones.* Prerequisite Elementary Psychology and IV-110. Year course. *MW, 2:15* and arranged hours in the Nursery School. Registration by permission of the instructor.

IV-114. NURSERY SCHOOL PROCEDURE. *Mrs. Jones.* Prerequisite, IV-112. Year course. *MW, 3:15-4:05* and arranged hours in the Nursery School. Registration by permission of the instructor.

AVAILABLE AT CLAREMONT GRADUATE SCHOOL

203. HISTORICAL DEVELOPMENT OF PSYCHOLOGY. *Mr. Perkins.* A study of the development of psychology from the Greek period to the experimental period. An effort will be made to relate historical materials to contemporary psychological theory. 4 units. First semester. *Th, 7 p.m.*

207. PSYCHOLOGICAL FOUNDATIONS OF SOCIAL AND POLITICAL BEHAVIOR. *Mr. Perkins and staff.* A comprehensive survey of the field of social psychology in relation to economic and political behavior. Topics covered will include conforming behavior in large and small social groups, social interactions of competition and cooperation, personality factors in decision-making, atypical behavior, social institutions and public opinion. First semester. 4 units.

211. SEMINAR IN PHYSIOLOGICAL PSYCHOLOGY. *Mr. Perkins.* 4 units. Second semester. *W, 2-4.*

Religion

Students planning to concentrate in religion must take the following survey courses or their equivalents: Religion 1, 2 and 65; History 1; and either Philosophy 57 or 110 and one other upper division course in the history of philosophy. Twenty-four hours of upper division work, of which at least eighteen must be in the field of religion at Pomona, are required. Six units of upper division work may be taken in one of the related fields of classics, English, education, government, history, philosophy, psychology, and sociology.

CONCENTRATION IN RELIGION AND PHILOSOPHY: See Philosophy.

1. THE RELIGION OF THE OLD TESTAMENT. *Staff.* An introduction to the developing beliefs and practices of Hebrew religion as set forth in the literature of the Old Testament. 3 units. First semester. Four sections. *MWF, 8, 9; TThS, 8, 9.*

2. THE RELIGION OF THE NEW TESTAMENT. *Staff.* An introduction to the origin and growth of the early Christian message as set forth in the literature of the New Testament, with special attention to Jesus and Paul. 3 units. Second semester. Four sections. *MWF, 8, 9; TThS, 8, 9.*

5a, 65b. Great Thinkers in Christian History. *Mr. Hazelton.* The istoric development of Christian beliefs approached through the lives and ıought of some of Christianity's outstanding representatives. First semester: ırly Christianity and the Middle Ages. Second semester: Reformation and ost-Reformation developments. 3 units. *MWF, 8.*

01. Philosophy of Religion. *Mr. Kaufman.* An analysis of the human tuation, its religious problems (anxiety, despair, love, hate, personal depend- ıce, etc.), and several answers to these problems, such as existentialism, ıysticism, rationalism, humanism, and Christian faith. 3 units. First semester. *TTh, 1:15-2:35.*

03. Interpretation of Christian Ideas. *Mr. Kaufman.* An analysis of the hristian faith with consideration of such problems as the nature of God, Jesus hrist, man, sin, salvation, predestination, free will, and the Church. 3 units. irst semester. *TTh, 1:15-2:45.* (Omitted in 1957-58.)

04. Contemporary Religious Thought. *Mr. Kaufman.* Reading and discus- on of European and American writers reflecting varying interpretations of ıe meaning of the Christian message for the modern world and its impact on ntemporary thought. 3 units. Second semester. *TTh, 1:15-2:35.*

05. Issues in Religious Thought. *Mr. Hazelton.* An examination of some oblems that arise in theological discussion today, such as the relation of faith reason, the truth of religious symbols and myths, the encounter with ırious types of unbelief in contemporary literature, or the conception of ıman nature and its fulfillment. 3 units. First semester. *TTh, 2:45-4:05.*

06. The Christian Approach to Other Religions. *Mr. Hazelton.* A nsideration of the points of contact and possible communication, dealing iefly with ideas of God in various world-faiths against the background of anging patterns of culture in our own time. 3 units. Second semester. *TTh, 45-4:05.*

1. The Faith of Ancient Israel. *Mr. Roché.* An examination of the ajor religious themes in the Old Testament concerning God, Man, Sin and lvation, with special attention as to how the Old Testament writers expressed e nature and activity of God, the purpose and personality of Man, the nature d consequence of Israel's Sin, and the individual and corporate requirements r Salvation. 3 units. First semester. *TThS, 10.*

6. The Study of the Gospels. *Mr. Roché.* An examination of the Gospels, ting recent source and form criticism concerning the events of Jesus' life, s conception of his mission, his teachings, and the place of the Gospels as story in the Christian Church. 3 units. Second semester. *TThS, 10.*

1. Christian Ethics. *Mr. Kaufman.* An analysis of ethical problems from Christian perspective, showing the relation of Christian ethics both to ristian thought and to concrete personal and social experience. 3 units. First mester. *MWF, 11.*

142. Christianity and Modern Culture. *Mr. Kaufman.* A critique, from Christian perspective, of sociological, political, psychological, literary, a philosophical analyses of society, with consideration given to the roles both the individual Christian and the Church. 3 units. First semester. *MW 11.* (Omitted in 1957-58.)

160. Catholicism and Protestantism. *Staff.* A comparative study of t beliefs and practices of Roman Catholicism and those of Protestantism both its original and contemporary forms. 3 units. Second semester. (Omitt in 1957-58.)

191a, 191b. Advanced Readings in Religion. *Staff.* A reading program f upper division students. Admission by permission of instructor. 3 uni Arranged.

AVAILABLE AT SCRIPPS COLLEGE

IV-140a, 140b. The Religions of the World. *TTh, 8,* and arranged hou

IV-142a, 142b. Christianity in the Modern World. Arranged hour.

Romance Languages and Literatures

Concentrators: A major in one Romance language is required to take minimum of 24 units in courses numbered over 100. A major in Roman languages, 36 units.

French major: Prerequisite 81b; required 120, 141.

Spanish major: Prerequisite 91b; required 120, 151.

Romance Languages major: Prerequisite French 81b, Spanish 91b; quired: French 120, 141; Spanish 120, 151.

Latin: Although not required, a knowledge of Latin is recommend particularly for students who contemplate graduate work.

Final senior examinations: Every concentrator in the department is requi to take general oral and written examinations in the appropriate Roma language as follows:

1) A one hour oral examination to test the student's command of t language.

2) A three hour essay examination on some phase of the culture to t the student's grasp of its civilization and his ability to write correct a effective language.

3) A three hour written general examination on the literature.

Extra-curricular activities: In addition to his classwork, the student m supplement his training by use of the Department's *Language Laborat* facilities and participation in the Language Clubs. Attention is called to *Maison Française* where students may elect to reside and enjoy the benefit native speaking environment. Open to women only.

anguage Placement: All students who have had foreign language training Romance languages and who consider taking further work in the same nguage are required to consult the Department to determine at what level ey should be placed.

Attention is called to the fact that the intermediate courses in French and panish meet lower Division Requirement 6.

FRENCH

Courses for concentration: Any courses numbered over 100. Prerequisite ench 81b or its equivalent. Of the courses on the literature, French 120 ust be taken first.

-1b. ELEMENTARY. *Mrs. Copple, Mr. Baird.* Essentials of grammar; written d conversational exercises. A cultural approach based on selected reading aterial. 3 units. Three sections. *MWF, 10, 1:15; TThS, 10.*

a-51b. INTERMEDIATE. *Mrs. Copple, Mr. Leggewie, Mr. Pronko.* Second ar college French. Intensive class reading of selected cultural and literary xts; outside reading related to individual interests. Grammar review and nversational practice. 3 units. Three sections. *MWF, 10, 1:15; TThS, 10.*

a, 61b. INTERMEDIATE CONVERSATION. *Mr. Pronko.* A course in spoken ench stressing fluency and accuracy. Dialogues, reports and practice work in nguage laboratory. Consent of the instructor required. 2 units. *MWF, 11.*

a-81b. ADVANCED. *Mr. Leggewie, Mr. Pronko.* Discussions in French based readings designed to give insight into French culture. Review of significant ammar points. Oral and written reports. Prerequisite: French 51b or the uivalent. 3 units. Two sections. *MWF, 1:15, TTh, 1:15-2:30.*

ADVANCED COURSES

French 81b or its equivalent is required for admission to all advanced courses, except French 130.

0a-120b. SURVEY OF FRENCH LITERATURE AND CIVILIZATION. *Mr. Leggewie.* A general outline course in the history of French literature from origin to modern times. 3 units. *TThS, 9.*

4a, 124b. THE NOVEL OF THE NINETEENTH CENTURY. *Mr. Leggewie.* Intensive study of the novel and its evolution as a reflection of the intellectual, torical and literary movements of the century. First semester, Romanticism; cond semester, Realism. 3 units. (Omitted 1957-58.)

7. MODERN FRENCH THEATRE. *Mr. Pronko.* Study of representative playights of today with special emphasis on Claudel, Giraudoux, Sartre and mus. 3 units. First semester. *TTh, 1:15-2:30.*

. ADVANCED CONVERSATION AND COMPOSITION. *Mrs. Copple.* A course signed to develop skill and accuracy in literary composition and oral expression. Required of majors. 3 units. First semester. *MWF, 11.*

153a, 153b. Literature of the Seventeenth Century. *Mrs. Copple.* In tensive study of the great masters of the French classical age: Corneill Molière, Racine. Lesser study of Descartes, Pascal, La Rochefoucauld an others. 3 units. (Omitted in 1957-58.)

156. Literature of the Eighteenth Century. *Mr. Pronko.* A study o the Age of Enlightenment with particular emphasis on Montesquieu, Didero Voltaire and Rousseau. 3 units. Second semester. *TTh, 1:15-2:30.*

190. Reading and Research in French. *Staff.* Open to majors capable o independent study to supplement advanced course work. Permission of in structor and departmental chairman required. May be repeated. 2-4 unit Each semester. Arranged.

ITALIAN

1a-1b. Elementary Italian. *Staff.* Essentials of grammar; written and co versational exercises. A cultural approach based on selected reading materia 3 units. (Omitted 1957-58.)

81a-81b. Advanced Italian. *Staff.* Conducted in Italian as far as possibl Extensive class and outside readings to serve as an introduction to Italia civilization. 3 units. (Omitted 1957-58.)

SPANISH

Courses for concentration: Any courses numbered over 100. Prerequisi Spanish 91b or its equivalent. Of the courses on the literature, Spanish 12 must be taken first.

11a-11b. Elementary. *Mr. Young.* Essentials of grammar; written an conversational exercises. A cultural approach based on selected reading materia 3 units. *MWF, 11.*

71a-71b. Intermediate. *Mr. Baird.* Second year college Spanish. Intensiv reading of selected cultural and literary texts; outside reading related to ind vidual interests. Grammar review and conversational practice. 3 units. *TThS,*

81a, 81b. Intermediate Conversation. *Mr. Young.* A course in spoke Spanish stressing fluency and accuracy. Dialogues, reports and practice wor in Language laboratory. Must have the consent of the instructor. 2 unit *MWF, 9.*

91a-91b. Advanced. *Mr. Young.* Advanced discussions in Spanish based o readings designed to give insight into Spanish culture. Review of significan grammar points. Oral and written reports. Prerequisite: Spanish 71b or th equivalent. 3 units. *TTh, 1:15-2:30.*

ADVANCED COURSES

Spanish 91b or its equivalent is required for admission to all advance courses, except Spanish 170.

120a-120b. SURVEY OF SPANISH LITERATURE. *Mr. Baird.* A general outline urse in the history of Spanish literature from its origins to modern times. units. *TTh, 1:15-2:30.*

131. ADVANCED CONVERSATION AND COMPOSITION. *Mr. Young.* A course de-gned to develop skill and accuracy in literary composition and oral expression. equired of majors. 3 units. (Omitted 1957-58.)

180a, 180b. THE GOLDEN AGE. *Mr. Baird.* The Renaissance, the Baroque id the Neo-Classic periods in Spanish literature. Main topics: first semes-r, development of Spanish literary forms, chivalry, humanism, the picaresque, id the Mystics; second semester, balladry and the theatre. 3 units. (Omitted 957-58.)

190a, 190b. CONTEMPORARY SPANISH LITERATURE. *Mr. Young.* The Genera-on of '98, pre-Civil War figures, and significant authors of the present day. ain writers: Unamuno, Baroja, Valle-Inclán, Benavente, Ortega y Gasset, an Ramón Jiménez, Pedro Salinas, García Lorca. 3 units. *MWF, 2:15-3:05.*

192. READING AND RESEARCH IN SPANISH. *Staff.* Open to majors capable of dependent study to supplement advanced course work. Permission of instruc-r and departmental chairman required. May be repeated. 2-4 units. Each mester. Arranged.

AVAILABLE AT SCRIPPS COLLEGE

173. MEXICAN LITERATURE. *Mrs. Lamb.* First semester. *MWF, 10.*

174. THE SPANISH AMERICAN NOVEL. *Mrs. Lamb.* Second semester. *MWF,*

FRENCH AND SPANISH LITERATURE IN TRANSLATION

ench 130. THE CONTEMPORARY NOVEL. *Mr. Leggewie.* Study of such out-nding writers as Gide, Mauriac, Proust, Sartre and Camus. Lectures in glish, readings in original or translation. 3 units. (Omitted 1957-58.)

anish 170. CERVANTES. *Mr. Young.* A study of the life and works of rvantes with special attention to Don Quixote and its relation to European erature. Lectures in English, readings in original or translation. Second mester. (Omitted 1957-58.)

* * *

In the Romance field the graduate work offered under the Claremont aduate School centers on the following periods of the literature: French: h Century, 18th Century, 19th Century, Contemporary Period. Spanish: e-Golden Age, Golden Age, Spanish and Spanish American of 19th Century, d Contemporary Period.

Russian

11b. ELEMENTARY RUSSIAN. *Mr. Niilus.* Essentials of grammar, pronuncia-n, constant exercises in reading and writing. 3 units. *TThS, 9.*

151-151b. INTERMEDIATE RUSSIAN. *Mr. Niilus.* More advanced study of Russian mmar. Daily reading, writing, translating and practice in Russian con-sation. 3 units. *TThS, 10.*

Sociology and Anthropology

Distribution requirement. In sociology and anthropology this requirement can be met in two ways: (a) by any two of the three courses, Sociology 51, Sociology 52, Anthropology 53; (b) by Sociology 51, or Anthropology 53, and any two upper division courses in the department.

Requirements for concentration. Sociology 51 and Anthropology 53, plus 24 units of upper division work in the department are required.

Statistics. Although not an absolute requirement, all students concentrating in the department are advised to take a course in statistics, either Economics 57 or Psychology 102. These units may be applied toward the 24 units of upper division work required.

Related areas of study. Students concentrating in the department should take six units of approved upper division work in at least one of the following areas: education, economics, government, history, oriental affairs, philosophy, psychology, or religion. Consult the adviser for specific courses approved in each department. Students planning to enter graduate study in anthropology should consult with the departmental adviser as early as possible concerning appropriate courses in science and the humanities.

Foreign languages. All students are urged to obtain a working knowledge of at least one modern foreign language. For those intending to engage in school teaching or social work in the southwest, this language should be Spanish. For those intending to take graduate work toward the Ph.D. in sociology, French and German are recommended. For those intending to pursue graduate study in anthropology, a reading knowledge of French and German is desirable, plus a command of the language in the culture area of one's choice.

Honors Study. Students who have better than a B grade average and who desire to pursue independent study may register for honors, preferably during their junior year, but no later than the beginning of the senior year. This program, culminating in a thesis, is especially useful where a student is interested in a project that cuts across departmental lines.

Sociology

51. The Study of Society. *Staff.* The basic characteristics and dynamics of society, culture, and personality as related to man's group behavior. Not open to freshmen. 3 units. First semester. Four sections. *MWF, 9, 11; TThS 8, 10.*

52. Social Problems. *Mr. Ball.* An analysis of the major problems of present day society related to individual, family, community, and world disorganization. Open to second semester freshmen. 3 units. Second semester. Two sections. *TThS, 10; MWF, 11.*

06. Social Welfare. *Mr. Scaff.* Social welfare in the western world. A sur-ey of basic principles and modern practice. Field visits and observation. 3 nits. Second semester. *MWF, 11.*

07. Criminology and Penology. *Mr. Ball.* Types of criminal behavior. actors contributing to crime and methods of dealing with criminals. Pre-:quisite: Sociology 51, or two of the following: Economics 51, Government 1, History 1. 3 units. Second semester. *MWF, 9.*

10. Race Relations. *Mr. Ball.* Discrimination against minority groups, id programs of action, with emphasis upon the American experience. Pre-:quisite: Sociology 51, or Anthropology 53, or consent of the instructor. units. Second semester. *TThS, 8.*

11. Problems of World Demography. *Mr. Ball.* An analysis of the sic characteristics of the population of the United States and of ajor areas of the world. The implications of population change for eco-)mic and political adjustments, international relations, and the development world resources. Prerequisite: Sociology 51, or sufficient background in her social sciences to satisfy the instructor. 3 units. First semester. *TThS, 10.*

12. The American Community. *Mr. Scaff.* The development of the merican Community as an ecological cultural, and social system. Supervised servation and field study in the local area. Prerequisite: Sociology 51, or structor's permission. 3 units. First semester. *MWF, 11.*

15. Marriage and the Family in Modern America. *Mr. Ball.* Considera-n of the alterations taking place in marriage in our rapidly changing society. alysis of the factors associated with family stability. Prerequisite: junior senior standing. (See Sociology 116.) 2 units. First semester. *TTh, 1:15.*

16. The Family as an Institution. *Mr. Ball.* Comparative study of familial titutions in various cultures. Evaluation of the concepts developed for com-rative analyses. (Enrollment limited to those who are taking or have taken ciology 115.) 1 unit. First semester. *Th, 2:15.*

12. Social Control. *Mr. Ball.* Society's means of creating and main-ning its social patterns, through group norms and pressures, law, public nion, propaganda, etc. Open to juniors and seniors only. Prerequisite: ciology 51, or sufficient background in the other social sciences to satisfy instructor. 3 units. Second semester. *TThS, 8.* (Omitted in 1958-59.)

. Comparative Social Movements. *Mr. Scaff.* Emphasis on the ideology l the dynamics of such movements as Socialism, Nazism, Communism, and)peration. Prerequisites: Sociology 51, or two of the following: Economics Government 51, History 1. Open to Juniors and Seniors only. 3 units. st semester. *MWF, 9.*

. The Development of Modern Social Theory. *Mr. Scaff.* The rise of dern sociology, with emphasis on the major contributions from Europe and erica since 1900. Writing assignments and seminar discussion of important

selected works. Prerequisite: Sociology 51, or Anthropology 53. Open t Juniors and Seniors only. 3 units. Second semester. *M, 3:15,* and arrange

191a-191b. Institutional Analysis. *Mr. Scaff.* Application of basic soci science concepts to the analysis and understanding of various types of instit tional agencies and their programs. Seminar and field placements. Individu projects. Open only to seniors with written permission of the instructor. units. *W, 3:15,* and arranged.

192a, 192b. Readings and Research in Sociology. *Staff.* Open to studen capable of independent study. Individual programs must be approved advance. 3 units. Arranged.

Anthropology

53. Cultural Anthropology. *Mr. Leslie.* The emergence of man and th development of various types of culture. Open to freshmen by written permi sion of the instructor. 3 units. Second semester. *MWF, 8.* (Some weeks th class will be divided into four sections for conference and discussion at arrange hours.)

108. Comparative Cultures. *Mr. Leslie.* Scientific and practical problen related to the variety of cultures found in Asia, Africa, the Americas, ar the South Pacific. Prerequisite: Sociology 51, or Anthropology 53, or instru tor's permission. 3 units. Second semester. *MWF, 10.*

130. Early American Civilizations. *Mr. Leslie.* The development of Maya Aztec and other civilizations with attention to the organization of the aesthetic, religious, and political traditions. No prerequisite. 3 units. Fi semester. *MWF, 8.*

160. Culture and Personality. *Mr. Leslie.* Social basis of personality terms of case studies of primitive and folk cultures. Prerequisite: Sociolo 51, or Anthropology 53, or instructor's permission. Open to juniors a seniors only. 3 units. First semester. *TThS, 9.*

193a, 193b. Readings and Research in Anthropology. *Mr. Leslie.* Open students capable of independent study. Individual programs must be approv in advance. 3 units. Arranged.

Speech and Drama

Requirements for concentration in speech and drama:

Lower Division Core Requirements: Speech and Drama 32, 51 (at least t units), 57, 61a, and 61b, in fulfillment of which requirements transfer stude may offer equivalent courses pursued at other colleges.

Upper Division Requirements with Emphasis on Speech: Speech and Dra 102, 105, 136, 137; English 155a, 155b or Scripps I-116a, 116b. Six additio units will be chosen from upper division courses in the Speech and Dra Department, or Scripps II-150a-b.

pper Division Requirements with Emphasis on Drama: Speech and rama 107a, 107b, 160a, 160b; Scripps II-150a, 150b; English 155a, 155b or ripps I-116a, 116b. Three additional units will be chosen from: Classics 160a, 0b; Speech and Drama 102, 105, 112a-112b; Scripps I-106, 107; Scripps II-149, 1a, 151b.

addition to the required work in the speech and drama concentration, the lowing offerings are suggested as suitable electives, the choice among them pending on the student's particular interests: *Lower Division:* Art 1; glish 57, 63, 64; Music 53 a-b; Philosophy 51. *Upper Division:* Comparative erature 181a, 181b; English 102, 154; French 127; Philosophy 151; Physical lucation 130a, 130b; Psychology 154. Fluency in at least one modern foreign guage (preferably French) is recommended.

the comprehensive examination the books on a supplementary reading list ll be included.

addition to the comprehensive examination, a demonstration of creative ility in the field of concentration is required.

1. Introduction to the Theatre. *Mrs. Allen and Mr. Forrester.* A oad, general survey of the theatre, with emphasis on the nature and structure drama, on general aspects and basic techniques in play production, and on relationship of the various arts to that of the theatre. Designed to afford dents whose major interest is not necessarily in this field an acquaintance th the various theatrical forms—stage, motion picture, radio, and television nd to increase their appreciation of these forms by establishing standards intelligent observation and for increasing discrimination. First semester. nits. *MF, 3-4:05.*

3 Fundamentals of Speech. *Staff.* A course to develop skill in ective oral communication. Emphasis is given to training in the analysis, port, development of subject material, appropriate use of language, effective al and bodily expressiveness. 3 units. First semester. *MWF, 11, TThS, 8.*

51, 51b. Play Production. *Staff.* Directed study in play production, both in ing and in stagecraft. One unit of credit granted for either fifty hours of rehearsal time under direction, or fifty hours of technical work under direction, for fifty hours of rehearsal and technical work combined. Not more than o units of credit may be granted in any one year. A total of eight units of dit may be applied toward graduation.

5 Voice and Phonetics. *Mr. Martin.* Application of a study of the physiogy of the voice mechanism and of the characteristics of speech sounds. signed for those wishing to develop a more flexible and responsive voice public speech and the theatre, and for those interested in speech correction linguistics. 3 units. First semester. *MWF, 9.*

61, 61b. Character Presentation in Dramatic Literature. *Mrs. Allen.* study of theories of acting and principles of stage behavior. Pantomime, provisation, and presentation of scenes from plays. 3 units. *TThS, 10.*

102. Public Speaking. *Mr. Martin.* Study of the principles of persuasive d course. In frequent performance, students will examine and apply the logic and non-logical modes of influencing belief and action: methods of holdi attention and interest, adaption to types of audiences, suggestion, motivatio dramatization of ideas. 3 units. Second semester. *MWF, 11.*

105. Oral Interpretation. *Mr. Martin.* Through frequent oral presentatic of various literary forms including the short story, narrative, lyric and dramat poetry, and dramatic literature, students are encouraged to an awareness of tl nature and craftsmanship of imaginative literature, and of critical standards f choosing material for oral reading. 3 units. Second semester. *MWF, 9.*

107a, 107b. Stagecraft. *Staff.* A consideration of the visual elements of pl production; theory and practice in scene design, costuming and lighting. I cludes a study of the history of stagecraft and scenic design, comparative styl and varying techniques in staging. Permission of instructor required. units. One hour lecture, one hour lab. *T, 1:15-3:05.*

112a-112b. Playwriting. *Mrs. Allen.* Principles of playwriting and practice writing plays. Study of the structure and style of significant plays for the light on the problems of the beginning playwright. Alternates with Spee and Drama 160a, b. 3 units. *TThS, 9.* (Omitted in 1957-58.)

136. Principles and Types of Discussion. *Mr. Martin.* Study of the principl of group-interaction in problem-solving discussion groups and learning d cussion groups. Application in classroom discussions to the business conferenc legislative session, and the seminar. 3 units. Second semester. *TTh, 2:45-4:0*

137. Argumentation and Debate. *Staff.* A study of the principles argumentation and their application in classroom debates on current politic social, and economic problems. Emphasis on logical thinking and relationship to effective oral communication. Prerequisite: Speech and Dran 32 or permission of the instructor. Speech and Drama 136 is also strong recommended. 3 units. First semester. *TTh, 2:45-4:00.*

160a, 160b. Advanced Acting and Directing. *Mrs. Allen.* First semeste Detailed study of characterization and styles of acting. Second semester: Fund mental principles of stage directing. Application of theories in class exercis and in the direction of a one-act play. 3 units. *TThS, 9.*

162. History and Criticism of American Public Address. *Mr. Marti* Study of the importance of public address in the development of Americ institutions. Speeches, speakers, and the basic issues which run through tl address of each historical period will be emphasized. Legislative, legal, r ligious, and popular speaking will be studied in readings, lectures, and inc vidual problems. 3 units. Second semester. Arranged.

165. Readings and Research in Speech. *Staff.* Reading and researc programs for senior students who are capable of independent study in fiel not included in regularly scheduled courses. 2 or 3 units. Arranged.

Shakespeare. For description see English 155a, 155b.

AVAILABLE AT SCRIPPS COLLEGE

149. Theory of Dramatic Production. *Mr. Workman.* Prerequisite: ech and Drama 160a, 160b. *MWF, 1:15-3:05.*

150a, 150b. Development of the Theatre and the Drama. *Mr. Work-n.* Year course. *MWF, 11.*

Zoology

logy Concentration. Requirements: Zoology 1, and 24 units of upper ision credit in Zoology or Biology.

logy-Chemistry Concentration. Requirements: Zoology 1, 37, or 121 135, and Biology 105; Chemistry 1, 59, 106, 110a, 111a or 2, 59, 106; sics 1 or 51-52; and additional units upper division work in Zoology /or Chemistry to make at least 24 units.

logy Concentration. See Biology listing.

-medical Concentration. See pre-professional programs; pre-dental, nursing, optometry, physical therapy and other allied medical arts prepa-ons are included in the above listed concentrations.

logy 11, 130 and 150 are offered at the Kerckhoff Marine Laboratory at ona del Mar from August 6 to September 8, 1956. Tuition for 6 units 90.00. Further information should be secured from Mr. Pequegnat.

1b. General Zoology. *Mr. Pequegnat, Staff.* An introduction to lern zoology with special reference to phylogeny, physiology, development, etics, and evolution; laboratory exercises include a study of selected animals phenomena which best illustrate important zoological principles. No requisites. Laboratory fee $6.00 each semester. 3 units. Two sections. Section ectures *TTh, 8;* laboratory *Th* at either *1:15-3:05* or *3:15-5:05.* Section B, ures *TTh, 10;* laboratory *W* at either *1:15-3:05* or *3:15-5:05.* Laboratory imum of 24 students.

1 Marine Zoology and Ecology. *Mr. Pequegnat.* An elementary course in ogical principles as observed in marine animals. Evolutionary development he various groups, their specific identification, their ecological distribution, their habits. Lecture, laboratory, and field work. Designed especially to ll the Biological Science requirement. Offered at the Marine Laboratory ng the summer. 6 units.

7 Introduction to Anatomy and Physiology. *Mr. McCarthy.* A course gned primarily for students whose interests lie in physical education, ical or occupational therapy or nursing, psychology or sociology. Special tion given to the human subject and to the physiology of exercise. 4 s. Laboratory fee $6.00. Prerequisite: Biology 1 or equivalent. First ester. Lectures *MWF, 10;* laboratory *F, 1:15-4:05.*

106. Parasitology. *Staff.* A consideration of animal associations and p sitism in general with special reference to those parasites of medi economic, and social importance. Prerequisite: any of the following: Zool 1, 11, or Biology 1. 2 units. Second semester. *TTh, 9.*

107. Parasitology Laboratory. *Staff.* Study of representative liv and preserved parasites. Prerequisite or concurrent: Zoology 106. Labora fee $4.00. 1 unit. Second semester. *T, 1:15-4:05.*

115. Comparative Anatomy. *Mr. Pequegnat.* A course embodying an an sis of the phylogenetic changes undergone by the principal organ syst accounting for their present structure, and a comparative study of structure of modern vertebrates. Prerequisite: Zoology 1. Laboratory fee $1(4 units. First semester. Lectures *TTh, 9;* laboratory *T* and *Th, 1:15-4*

120. Vertebrate Embryology. *Mr. McCarthy.* A study of developm from fertilization through organogenesis. Prerequisite: Zoology 115. Lab tory fee $8.00. 4 units. Second semester. Lectures *MWF, 9;* laboratory *1 4:05* either *M* or *Th.*

121. Mammalian Physiology. *Mr. Ryerson.* The functions of organs organ systems with emphasis on neural and humoral controls resulting f cellular changes. Prerequisites: one year of college chemistry, and Zool 1 or equivalent. Laboratory fee $8.00. 4 units. First semester. Lectures *MW* laboratory *T, 1:15-4:05.*

125. Histological Technique. *Mr. McCarthy.* Theory and practice of pr ration of vertebrate cells and tissues for microscopical study. Laboratory $4.00. 1 unit. First semester. *W, 1:15-4:05.*

126. Vertebrate Histology. *Mr. Ryerson.* Microscopic anatomy of repres ative vertebrate tissues and organs. Laboratory fee $6.00. 3 units. First se ter. Lectures *MW, 9;* laboratory *Th, 1:15-4:05.*

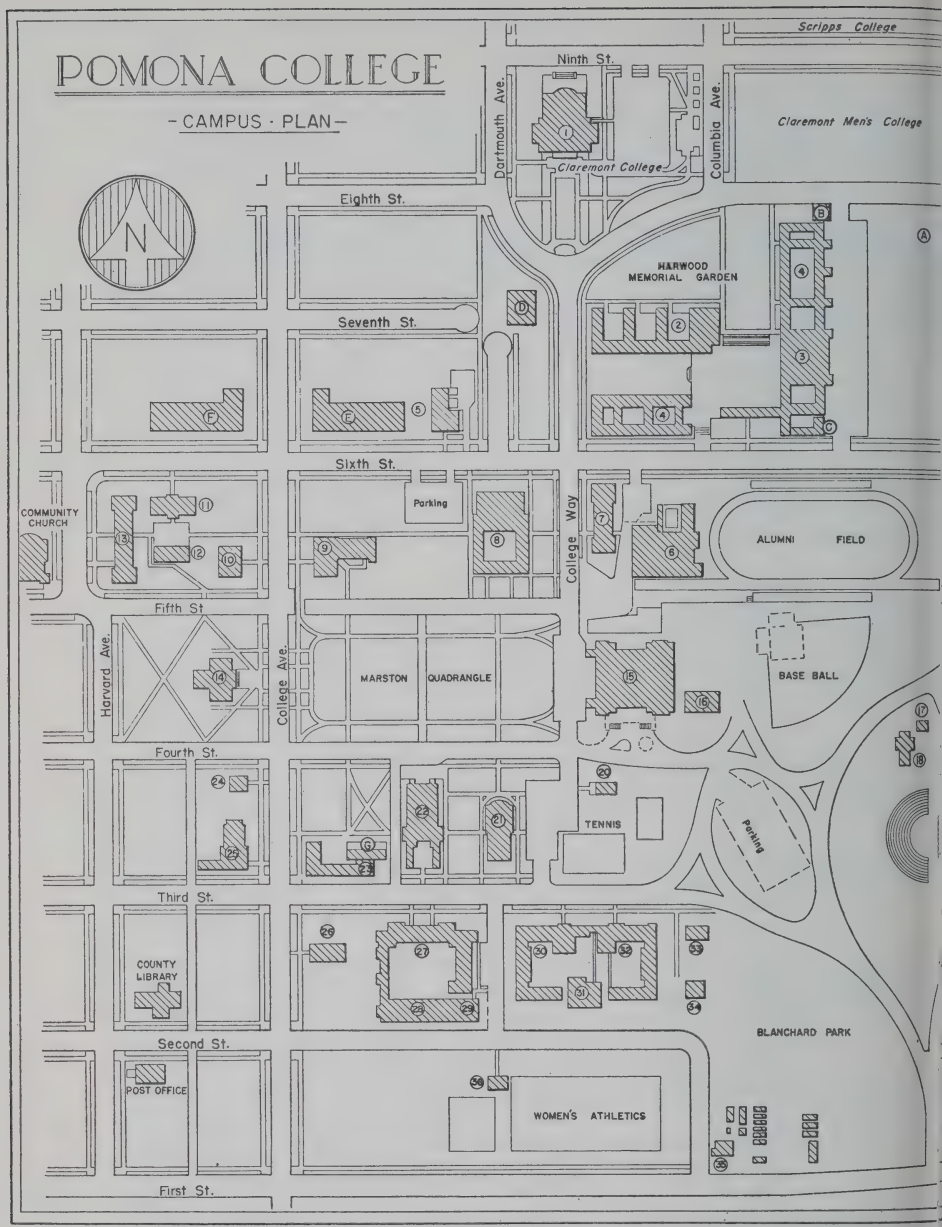
130. Marine Invertebrates. *Mr. Pequegnat.* A study of invertebr residing in the sea: their phylogenetic relationships, their morphology, their physiology. Laboratory devoted principally to Pacific Coast ty Offered at the Marine Laboratory during the summer. 3 units.

135. Mammalian Anatomy. *Mr. Ryerson.* The gross anatomy of mam illustrated by regional dissections of the cat. Prerequisite: Zoology 1 equivalent. Laboratory fee $6.00. 4 units. Second semester. Lectures *MW* laboratory *W* and *F, 1:15-4:05.*

150. Marine Ecology. *Mr. Pequegnat.* A study of marine invertebrate they exist in the field. Discussion of the distribution of each species obse and the factors which may account for these distributional patterns. Prere site: a thorough grounding in the morphology and physiology of ma invertebrates or Zoology 130 concurrently. Offered at the Marine Labora during the summer. 3 units.

Animal Ecology. *Mr. Pequegnat.* A study of environment, life history, ılations, communities, distribution, and evolution, with particular em-is on the vertebrates. Laboratory fee $4.00. 4 units. Second semester. ures *TTh, 9;* laboratory *TTh, 1:15-4:05.*

Introduction to Research in Zoology. *Staff.* Each semester. 1 to 3 ;. May be repeated for credit. When laboratory work is involved, labora- fee, $2.00 per unit. Offered at Marine Laboratory as well as at Clare- t. Arranged.



A. Athearn Field.

B. Telephone Building for the Associated Colleges.

C. Edwin C. Norton Hall, residence for men.

D. The Faculty House for the Associated Colleges.

E. The new Physics, Mathemat Astronomy building.

F. The proposed Geology and building.

G. Rembrandt Hall, art studios.

POMONA COLLEGE CAMPUS PLAN

(See map on opposite page)

1. Honnold Library operated by Claremont College for the Associated Colleges.
2. Helen R. Walker Hall, residence for men.
3. Lucien H. Frary Hall, central dining hall for men.
4. Eli P. Clark Hall, residence for men.
5. Baxter Medical Building for the Associated Colleges.
6. Memorial Gymnasium and Swimming Pool.
7. Smiley Hall, residence for men.
8. Edmunds Union, including student offices, cooperative store, ballroom, and lounges.
9. Holmes Hall, classrooms and assembly hall.
10. Pearsons Hall, physics laboratory, mathematics department.
11. Crookshank Hall, botany, biology, and zoology laboratories.
12. Harwood Hall, department of psychology.
13. Mason Hall, chemistry and geology laboratories.
14. Carnegie Building. Classrooms and offices.
15. Mabel Shaw Bridges Auditorium, seating 2600, operated by Claremont College in behalf of the Associated Colleges.
16. Renwick Gymnasium.
17. Seaver Laboratory, containing classrooms and library for the department of astronomy.
18. Frank P. Brackett Observatory.
19. Open-Air Theatre.
20. Replica of original home of Pomona College.
21. Sumner Hall, administration and classroom building.
22. Mabel Shaw Bridges Hall of Music, assembly hall for recitals and chapel services; music studios and practice rooms.
23. The Gladys Montgomery Art Center.
24. President's House.
25. Claremont Inn, guest house for college and community, private and public dining rooms.
26. Baldwin House, residence for women.
27. Harwood Court, residence hall for women.
28. Aurelia Squier Harwood Memorial Dining Hall for women.
29. Mary McLean Olney Dining Hall for women.
30. Della Mulock Mudd Hall, residence for women.
31. Jessie E. Gibson Dining Hall for women.
32. Florence Carrier Blaisdell Hall, residence for women.
33. Casa Hispánica, residence for women.
34. Maison Française, residence for women.
35. Heating Plant and Maintenance Shops for the Associated Colleges.
36. Field House for women's athletics.

The Business Office for the Associated Colleges is located in Harper Hall at College and Tenth Streets.

The Infirmary for the Associated Colleges is located on Amherst Avenue north of Foothill Blvd.

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